

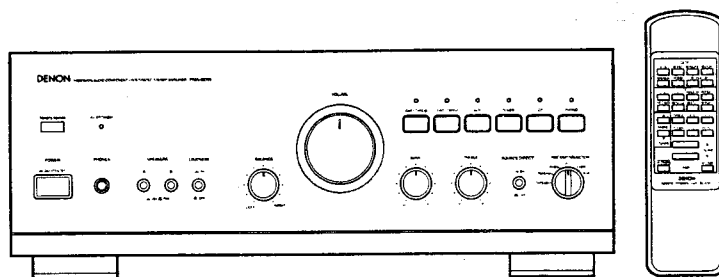
DENON

Hi-Fi Integrated Stereo Amplifier

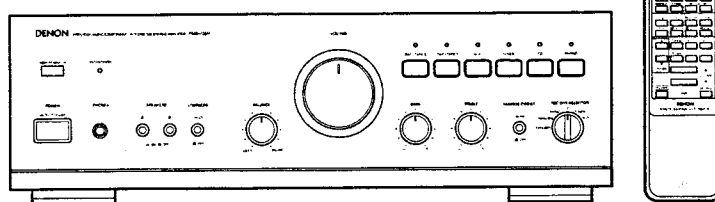
SERVICE MANUAL

MODEL PMA-925R/725R

INTEGRATED STEREO AMPLIFIER



PMA-925R



PMA-725R

CONTENTS

OPERATING INSTRUCTIONS	2-7
REMOVAL OF EACH SECTION	8, 9
FUNCTION OF NEW CIRCUIT	10, 11
METHOD OF ADJUSTMENTS	12
BLOCK AND LEVEL DIAGRAM	13
SEMICONDUCTORS	14, 15
PRINTED WIRING BOARD	16-19
NOTE FOR PARTS LIST	20
PARTS LIST OF P.W.B. ASS'Y	20-25
PMA-925R	20-23
PMA-725R	23-25
EXPLODED VIEW OF CHASSIS AND CABINET, PARTS LIST OF EXPLODED VIEW	26-29
PMA-925R	26, 27
PMA-725R	28, 29
WIRING DIAGRAM	30
SCHEMATIC DIAGRAM	31-34
PMA-925R	31, 32
PMA-725R	33, 34

NIPPON COLUMBIA CO., LTD.

**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVIC-
ING TO QUALIFIED SERVICE PERSONNEL.**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

● FOR U.S.A. & CANADA MODEL ONLY

CA

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE

● POUR LE MODELE CANADIEN UNIQUEMENT

ATTENTION

POUR PREVENIR LES CHOCs ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR. UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY
We declare under our sole responsibility that the product premium Amplifier PVA-925R/ 725R to which this declaration relates is in conformity with the following standards:

• ÜBEREINSTIMMUNGSEBEN

ÜBEREINSTIMMUNGSEKKLARUNG
Wir erklären unter unserer Verantwortung, daß das Produkt Vor-Hauptversiarler PMA-925R/725R, auf das sich diese Erklärung bezieht, den folgenden Stan-
dards entspricht:

● DÉCLARATION DE CONFORMITÉ

DECLARATION DE CONFORMITE
Nous déclarons sur notre seule responsabilité que l'appareil Amplificateur n° PHA-925R/725R auquel se réfère cette déclaration est conforme aux standards suivants:

● DICHIARAZIONE DI CONFORMITÀ

DICHIARAZIONE DI CONFORMITÀ
Dichiariamo con piena responsabilità che il prodotto amplificatore di precedenza PMA-925R/725R, al quale questa dichiarazione si riferisce, è conforme alla seguente normativa:

DECLARACIÓN DE CONFORMIDAD

DECLARACION DE CONFORMIDAD
Declaramos bajo nuestra única responsabilidad que el producto precedente, el Amplificador PMA-925R/725R, al que esta declaración hace referencia, es conforme con los siguientes estándares:

● EENVORMIGHEIDSVERKI ARING

LEVENSMIDDELSVERKLARING
Wij verklaren uitsluitend op onze verantwoordelijkheid dat het product waarop deze verklaring betrekking heeft, de voorversterker PMA-925R 1725R, in overeenstemming is met de volgende normen:

● ● ÖVERENSSTÄMMELSEINTYG

Harmed inrygas hell på eget ansvar att produkten, förpacknings- / slutsteg PMA-325R/725R, vilken detta intryggar harvisar till uppfyller följande standarder:
EN55013, EN55020, EN60555-2 och EN60555-3

DECLARAÇÃO DE CONFORMIDADE

DECLARAÇÃO DE CONFORMIDADE
 Declaramos sob nossa exclusiva responsabilidade que o produto pre Aplicador Principal PMA-925R/775R ao qual esta declaração corresponde, está em conformidade com as seguintes normas:

EN55013, EN55070, EN60555-2 e EN60555-3

● **FOR U.S.A. MODEL ONLY**

SAFETY INSTRUCTIONS

1. **Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating and use instructions should be followed.
5. **Water and Moisture** – The appliance should not be used near water. For example, near a bathtub, washbowl, kitchen sink, or in a wet basement, or near a swimming pool, and the like.
6. **Carts and Stands** – The appliance should be used only with a cart or stand that is recommended by the manufacturer.
7. **Appliance and cart combination should be used with care.**
Quick stops, excess force, and uneven surfaces may cause the appliance and cart combination to overturn.
8. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
9. **Ventilation** – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
10. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including appliances) that produce heat.
11. **Power Sources** – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
12. **Grounding or Polarization** – Precautions should be taken so that the grounding or polarization means of an appliance are not defeated.
13. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them; paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
14. **Cleaning** – The appliance should be cleaned only as recommended by the manufacturer.
15. **Power Lines** – An outdoor antenna should be located away from power lines.
16. **Outdoor Antenna Grounding** – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
17. **Nonuse Periods** – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
18. **Object and Liquid Entry** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through top openings.
19. **Damage Requiring Service** – The appliance should be serviced by qualified service personnel when:
- A. The power-supply cord or the plug has been damaged; or
- B. Objects have fallen, or liquid has been spilled into the appliance; or
- C. The appliance has been exposed to rain; or
- D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
- E. The appliance has been dropped, or the enclosure damaged.
20. **Servicing** – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

[illegible]

NOTE:

1. Always keep the **POWER** switch on the main unit turned on.
2. Turn the power on and off from the remote control unit.
3. Unplug the power cord when you do not plan to use the unit for a long period of time.

CAUTION:

CAUTION: If only the MUTE/STANDBY LED is lit, this means that the power is turned off from the remote control unit. Turn the power on from the remote control unit.

HINWEIS:

1. Lassen Sie den Netzschalter (POWER) am Hauptgerät stets eingeschaltet.
2. Schalten Sie den Strom mit dem Fernbedienungsgerät ein- und aus.
3. Trennen Sie das Netzkabel vom Netz ab, wenn Sie beabsichtigen, das Gerät über einen längeren Zeitraum hinweg nicht zu benutzen.

VORSICHT:

Wenn nur das Summschalt-/Bereitschafts-LED (MUTE/STANDBY) leuchtet, so bedeutet dies, daß der Strom vom Fernbedienungsgerät ausgeschaltet worden ist. Schalten Sie den Strom vom Fernbedienungsgerät aus ein.

REMAR

2. S'assurer que le commutateur d'alimentation (POWER) sur l'unité principale soit toujours dans la position activée.
3. Allumer et étendre l'appareil avec la télécommande.
4. Débrancher le cordon d'alimentation lorsque l'appareil ne sera pas utilisé pendant une longue période.

— —

ATTENTION: Si seul le témoin (LED) de sourdine/veille (MUTE /STANDBY) est allumé, cela signifie que l'appareil est mis hors circuit par la télécommande. Allumer l'appareil avec la télécommande.

NOTA:

1. Tenete sempre l'interruttore della corrente (POWER) dell'unità principale nella posizione di attivazione.
2. Accendete e spegnete la corrente usando il telecomando.
3. Scollegate il filo d'alimentazione quando avete intenzione di non usare l'apparecchio per un lungo periodo.

ANSWER:

Se sono illuminati solo i LED di attenuazione/attesa (MUTE / STANDBY), questo significa che la corrente è stata spenta con il telecomando. Riaccendete la corrente usando il telecomando.

..
#

1. 主機上的POWER (電源) 掣須一直保持接通。
2. 由遙控器操縱電源之開和關。
3. 本機打算靜音時間不用時應將電源接線拔下。

1

注意：若只有MUTE/STANDBY LED指示燈亮，就表示電源已由遙控器關閉。應從遙控器開啟電源。

PRECAUTIONS FOR INSTALLATION

PRECAUTIONS FOR INSTALLATION
Leave at least 10cm of space between this unit and any other component placed above.

SICHERHEITSMASSNAHMEN BEIM EINBAU

Lassen einen Mindestabstand von 10 cm zwischen diesem Gerät und der anderen Komponente, die daraufgestellt wird.

PRECAUTIONS D'INSTALLATION

Prévoir un espace d'au moins 10cm entre l'unité et tout autre appareil se trouvant à proximité.

PRECAUZIONI PER L'INSTALLAZIONE

Lasciate uno spazio libero di almeno 10 cm fra quest'unità e qualsiasi altro componente che è collocato sopra la stessa.

注意

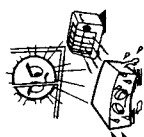
本機須與其他音響設備相隔至少10厘米。



- [illegible]



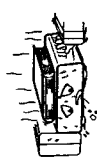
- | | |
|--|---|
| Handle the power cord carefully.
Hold the plug when unplugging the cord.
Geren. Se voorzichtig met het Netkabel om-
kopen. De stekker vasthouden bij het uittre-
ken. Sebezeret ağırlıklı olarak tutun. Kablo-
yı çekmeyin. Sebezeret ağırlıklı olarak tutun.
Manipuler la cordon d'alimentation avec pré-
caution.
Tenir le prise lors du débranchement du cor-
d. | Minimizzare il rischio di ammortamento con cura.
Agire per la vostra sicurezza scollegare l'cavo dalla
presa.
Minimizzare el riesgo con cuidado.
Suavemente, enchufe el cableado desconecte el
cordon de energia.
Handlen met nedsatt kraft.
Hold fast på stikket når du skal fjerne kablet.
Hantare med försiktighet.
Håll fast i kontakten när du ska dra ut kablarna.
Hantare med försiktighet.
Håll fast i kontakten när du ska dra ut kablarna.
Manövrer med omsorg.
Såsom att hålla fast i kontakten när du ska dra ut kablarna. |
|--|---|



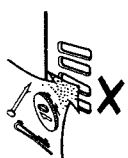
- Keep the set free from moisture, water, and dust.
Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
Préserver l'appareil contre l'humidité, l'eau et la poussière.
Tenere l'unità lontana dall'umidità, dall'acqua e dalla polvere.
Mantenga el equipo libre de humedad, agua y polvo.
Gaan vochtgevoel, water of stof in het apparaat binnengedragen.
Utsätt inte apparaten för fukt, vatten och damm.
Mantenha o aparelho livre de qualquer umidade.



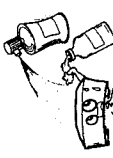
- Unhook the power cord when not using the set for long periods of time.
- Wenn das Gerät ein langes Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Quando non si utilizzerà l'alimentazione bisogna slegate il set da quelle pendenti da lunghe periodi.
- Disinnestare il filo di alimentazione quando avete intenzione di non usare il filo di alimentazione per un lungo periodo di tempo.
- Utsluta strömkabeln från uttaget när du inte använder den i så lång tid.
- Neem altijd het netsnoer uit het stopcontact wanneer het apparaat gedurende een lange periode niet wordt gebruikt.
- Kopla u netkabel om apparaten inte comen an elenkanden i lång tid.
- Quando não estiver a utilizar o aparelho, desligue-o da rede que se usou por um longo período.
- 1000.



- * (For sets with ventilation holes)
- Do not obstruct the ventilation holes.
- Die Belüftungsöffnungen dürfen nicht verdeckt werden.
- Ne pas obstruer les trous d'aération.
- Non coprire i fori di ventilazione.
- No obstruya los orificios de ventilación.
- Die Ventilationsöffnungen müssen nicht worden abgedeckt.
- Tapp nie till ventilationsöppningarna.
- Não obstrua os orifícios de ventilação.



- Do not let foreign objects in the set.
Keine fremden Gegenstände in das Gerät
kommen lassen.
Ne pas laisser des objets étrangers dans l'ap-
pareil.
E' importante che nessun oggetto è inserito
all'interno dell'unità.
No debe colocarse extraños dentro del equipo.
Daar geen vreemde voorwerpen in het apparaat
vallen.
Se till att framman för mitt trångt utrymme
apparaten.
NÃO deve colocar estranhos no aparelho.

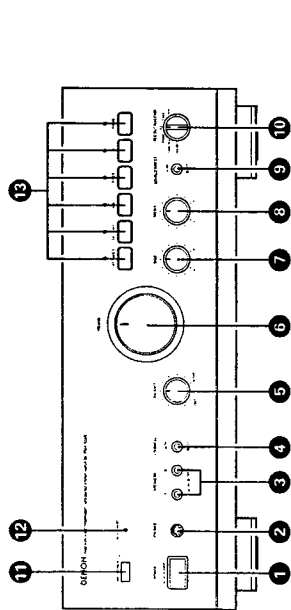


- Do not let insecticides, benzene, and thinner come in contact with the skin.
- Lesen Sie das Gerdicht nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen
- Ne pas mettre en contact des insecticides, du benzène ou de diluant avec l'appareil cutané.
- Insetisidji, benzolo i solventi ne permissu a kontaktu s'inspektizidji, gasolin i dyubuenten s'el ekipu.
- Laat geen insecticideverdelende middelen, benzine of verdunningsmiddel met de apparatuur in aanraking komen!
- Se illat insectismede på sprøybruk, bensin eller tinnere kommer i kontakt med apparatenes holje.
- Não permita que inseticidas, benzeno e dissolventes entrem em contato com o corpo humano.

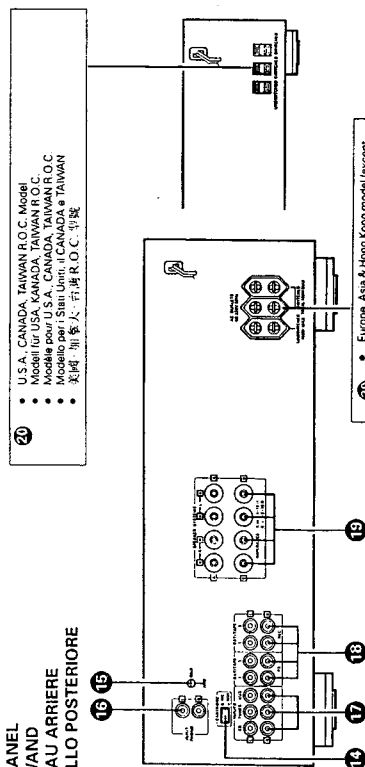


- Never disassemble or modify the set in any way.
- Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern.
- Nijemals demonteren of modifier 't apparaat.
- Non smontare mai, né modificare l'unità in nessun modo.
- Nunca desarme o modifique el equipo de ninguna manera.
- Nooit dit apparaat demonteren of op andere wijze modifieren.
- Taunte sar apparaten och försök inte bygga om den.
- Nunca desmonte ou modifique o aparelho de alguma forma.

FRONT PANEL
FRONTPLATTE
Panneau AVANT
Pannello ANTERIORE
正面



REAR PANEL
Rückwand
Panneau ARRIERE
Pannello POSTERIORE
背面



- 20
- U.S.A., CANADA, TAIWAN R.O.C. Model
 - Modell für USA, KANADA, TAIWAN R.O.C.
 - Modèle pour U.S.A., CANADA, TAIWAN R.O.C.
 - Modello per Stati Uniti, il CANADA e TAIWAN
 - 美國、加拿大、台灣 R.O.C. 中國
- 20
- Europe, Asia & Hong Kong model (except for U.K.)
 - Modell für Europa, Asien & Hong Kong (außer Großbritannien)
 - Modèle pour Europe, Asie et Hong Kong
 - sauf Royaume-Uni (l'Asie & Hong Kong)
 - l'Asien & l'Europe Unifiée (l'Asie & Hong Kong)
 - 歐洲及亞洲及香港型號 (除英國外)

Fig. 1
Abb. 1

CONNECTIONS
ANSCHLUSSE
CONNEXIONS
CONNESSIONI
連接方法

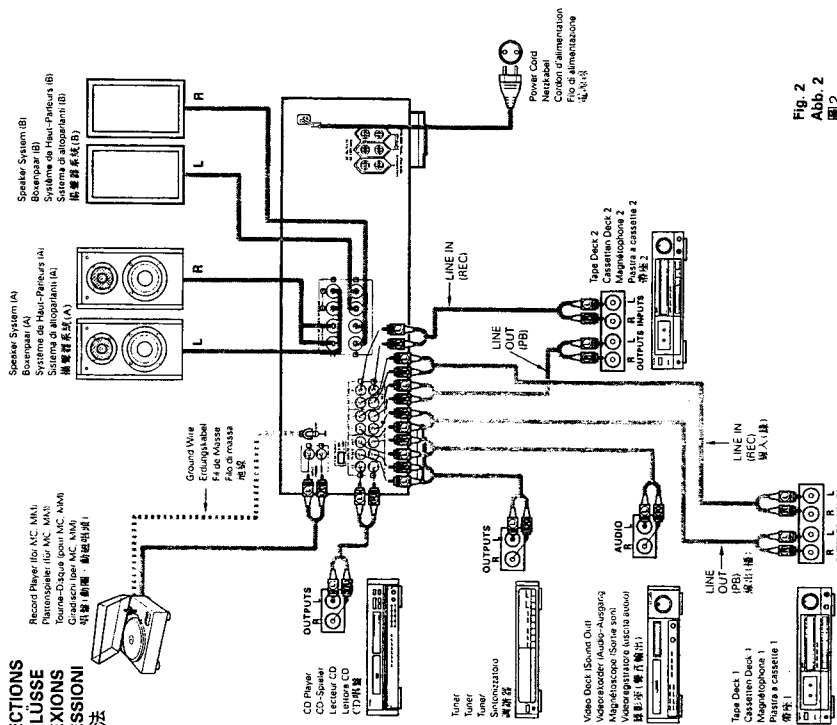


Fig. 2
Abb. 2

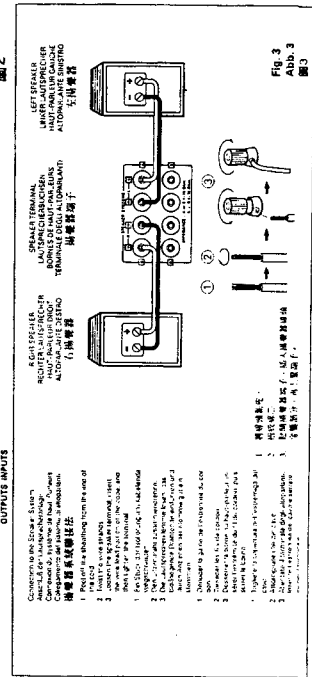

















Fig. 3
Abb. 3

① CARTRIDGE	② GND	③ PHONO	④ CD, TUNER, AUX	⑤ DAT/TAPE-1, DAT/TAPE-2	⑥ SPEAKERS
Cartridge Selector Switch	GND	Phono Input Terminals (Phono)	Input Terminals (CD, TUNER, AUX)	Playhead and Recording Terminals (DAT/TAPE-1, DAT/TAPE-2)	Speaker Terminals
Tuner/Decoder/Video Input	GND	Scalable Input Terminals (Phono)	Expansion Terminals (CD, TUNER, AUX)	Tape and Recording Terminals (DAT/TAPE-1, DAT/TAPE-2)	Left/Right Terminals
Selector de cassette	GND	Boxes d'entrée (Phono)	Boxes d'entrée (CD, TUNER, AUX)	Boxes de lecture et d'enregistrement (DAT/TAPE-1, DAT/TAPE-2)	Signaux de haut-parleurs
Interrupteur de sélection cassette	GND	Terminals d'entrée (Phono)	Terminals d'entrée (CD, TUNER, AUX)	Terminals d'enregistrement (DAT/TAPE-1, DAT/TAPE-2)	Terminals d'origine altimètres
輸入磁帶選擇開關	接地	喇叭輸入端子	輸入端子 (CD, 調諧器, 輔助)	錄放音端子 (DAT/TAPE-1, DAT/TAPE-2)	揚聲器端子



DESIGNATIONS AND FUNCTIONS OF PANEL CONTROLS

- 1 POWER (Power Switch)**
When the power switch is turned ON (), the MUTE/STAND-BY LED  lights.
When the power switch is turned ON, power is supplied to the unit. It takes a few seconds after the power is turned on for the unit to warm up. This is due to the built-in muting circuit that eliminates noise during the auto-off operation.
- 2 PHONES (Headphone Jack)**
This jack is used to plug in the headphones.
- 3 SPEAKERS (Speaker Selection Switch)**
The PMA-925R/725R can be connected to two speaker systems. Speaker system A is connected to terminals A and B. When B is pressed, the speaker system connected to speaker output terminals B operates.
When A and B are pressed on together, both speaker systems operate simultaneously. When the A and B switches are both off (in the out position), there is no output from the speaker terminals. This setting is used to listen to playback through the headphones.
- 4 LOUDNESS (Loudness Switch)**
When the volume is low, it is difficult for the human ear to clearly distinguish notes in the low and high frequency ranges. The loudness switch allows a simple "one-touch" correction of this difficulty. Press the loudness switch ON () when listening to music at a low volume. The low notes and high notes will be corrected to produce a natural sound.
- 5 BALANCE (Balance Control)**
This knob is used to adjust the balance between the left and right channels. When it is set to the center position, the amplitude of the amplifier is equal on both sides. If there is a difference in the left and right channel output voltages for a cartridge, move the knob to the left and the right to adjust it. If the volume on the right side is too low, turn the knob to the right (). If the volume on the left side is too low, turn the knob to the left (). This will achieve an even balance on the left and right sides.
- 6 VOLUME (Volume Control)**
This knob controls the overall volume level.
Turn the knob to the right () to raise the volume and to the left () to lower it.
- 7 BASS (Bass Control)**
This knob is used to control the bass quality of the sound.
When the knob is set at the center position, the frequency characteristics are flattened in the range below 1000 Hz. The bass is emphasized as the knob is moved off center to the right (), and reduced as it is moved to the left ().
When volume control  is set to the right of the center position, the effect of the other controls is reduced.
- 8 TREBLE (Treble Control)**
This knob is used to control the treble quality of the sound.
When the knob is set at the center position, the frequency characteristics are flattened in the range above 1000 Hz. The treble is emphasized as the knob is moved off center to the right (), and reduced as it is moved to the left ().
When volume control  is set to the right of the center position, the effect of the other controls is reduced.

13 SOURCE DIRECT (Source Direct Switch)

The controls (BALANCE, LOUDNESS, and TONE) can be used when this switch is in the OFF () position.
When set to the ON () position, the above controls are bypassed and the signals are input directly to the volume control circuit, providing high quality sound.

14 REC OUT SELECTOR (Rec Out Select Switch)

- Use this switch to select the recording component.
- PHONO: Used to recording from the turntable.
 - CD: Used to recording from the CD player.
 - TUNER: Used to recording from the tuner.
 - AUX: Used to recording component that connected to the AUX terminal.
 - DAT/TAPE-1  2: Used to recording from the tape deck connected to the DAT/TAPE-1 jacks.
 - DAT/TAPE-2  1: Used to recording from the tape deck connected to the DAT/TAPE-2 jacks.

15 REMOTE SENSOR (Remote Control Sensor)


This sensor receives the infra-red light transmitted from the wireless remote control unit.
For remote control, point the wireless remote control unit towards the sensor.

16 MUTE/STANDBY LED

This LED flashes while the muting circuit is activated when the power is turned on and when muting is turned on from the remote control unit, and remains lit (without flashing) while the power is on.



17 INPUT SELECTOR (Input Select Switch)

Use these to select the program source.
When the button for the desired program source is selected, its LED lights. One program source only can be selected at a time, as follows:

- PHONO: Used to select the output from a turntable that is connected to the PHONO terminal. Use the PHONO switch  (Rear Panel Side) to switch the sensitivity to correspond to the cartridge type being used.
Used to listen a compact disc player or other component that is connected to the CD terminal.
- CD: Used to play a component such as an FM/AM tuner or a TV tuner that is connected to the TUNER terminal.
- TUNER: Used to play a component such as a Hi-Fi video player, TV tuner, 8-track tape player or tape deck that is connected to the AUX terminal.
- AUX: Use this Position when using the tape deck, etc., connected to the DAT/TAPE-1 jacks.
- DAT/TAPE-1: Use this Position when using the tape deck, etc., connected to the DAT/TAPE-2 jacks.

18 PHONO (Cartridge Selection Switch): Rear Panel Side

This switch is set according to the type of player cartridge to be used.


- MC (): Used when an MC (moving-coil) cartridge with an output of less than 0.5 mV is used.
- MM (): Used when an MM (moving-magnet) cartridge with an output of 2 mV or more is used.

19 AC OUTLETS: Rear Panel Side

- For U.S.A., Canada, and Taiwan R.O.C. models:
AC outlets are used for connecting amplifier component units, such as tuner, turntable, tape deck, etc.
- SWITCHED (Total capacity: 120 W):
These outlets are turned ON/OFF when main power switch and POWER button on the Remote Control Unit is turned on/off.
- UNSWITCHED (Capacity: 240 W)
This outlet is always ON whether power switch is on or OFF.
- For Europe (except the U.K.), Asia and Hong Kong models:
AC outlets are used for connecting amplifier component units, such as tuner, turntable, tape deck, etc.
- SWITCHED (Total capacity: 100 W):
These outlets are turned ON/OFF when main power switch and POWER button on the Remote Control Unit is turned on/off.
- UNSWITCHED (Capacity: 100 W)
This outlet is always ON whether power switch is on or OFF.

OPERATION

PREPARATION

- 1. CHECKING CONNECTIONS**
 - Make sure that all the connections are proper by referring to the back panel. (Fig. 2, 3)
 - Check the polarity (positive and negative) of connections, and the directivity of stereo separation (right cord to right channel terminal, and left cord to left channel terminal).
 - Check the directivity of pin cord connection.
 - 2. SETTING OF EACH KNOB**
 - Turn the volume control knob counterclockwise, to "0".
 - Set the rotary knob to "flat".
 - Set SOURCE DIRECT and LOUDNESS to "OFF ()".
- After checking the above items, turn on the power, the amplifier is set in the ready mode in a few seconds.

PLAYING A RECORD

1. Set the INPUT SELECTOR switch to "PHONO".
2. Operate the turntable and play the record.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

PLAYBACK OF CD PLAYER

1. Set the INPUT SELECTOR switch to "CD".
2. Operate the CD player.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

RECEPTION OF RADIO PROGRAMS

1. Set the INPUT SELECTOR switch to "TUNER".
2. Operate the tuner to receive a radio program.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

CONNECTIONS OF AUDIO EQUIPMENT TO AUX TERMINALS

1. Set the INPUT SELECTOR switch to "AUX" Position.
2. Operate the Audio equipment Systems.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

PLAYBACK WITH TAPE DECK

1. Set the INPUT SELECTOR switch to "DAT/TAPE-1" or "DAT/TAPE-2".
2. Operate the Tape Deck.
3. Turn the volume and tone controls to yield an appropriate volume and sound quality.

RECORDING WITH TAPE DECK

1. Set the REC OUT SELECTOR to the program source you wish to record.
2. Start the playback of the program source.
3. Start recording with the component connected to "DAT/TAPE-1" or "DAT/TAPE-2".

- In the PMA-925R/725R, the REC OUT signal and the speaker (headphone) signal are output via separate circuits so that knobs and switches related to the tone and volume have no effect whatsoever on the sound that is recorded. Also, since the recording function is selected by the REC OUT SELECTOR, the free program source can be played through the speakers (or headphones) even during recording.

MONITORING THE RECORDING


- A recording in progress can be monitored if a tape deck with three individual heads for recording and playback is used. A tape deck in which a common head is used for both recording and playback cannot be used to monitor recording. When recording is in progress, set the REC OUT SELECTOR to "DAT/TAPE-1" with the INPUT SELECTOR will engage the RECORDING MONITOR and permit a check of the recording condition.

CAUTION

Protective Circuit

This set is equipped with a high speed protective circuit. This circuit breaks the internal circuitry from damage due to large currents that flow when the speaker jacks are shorted completely out. In such a case, the protective circuit is activated by a short circuit. This protective circuit's operation cuts off the power to the speakers. In such a case, be sure to turn the power to the set off and check the connections to the speakers. Then turn the power on again. After muting for several seconds, the set will operate normally.

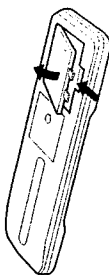
NOTE

- This amplifier has a full memory back-up system. When the power is turned on, INPUT SELECTOR  is set to the last mode set before the power was turned off.

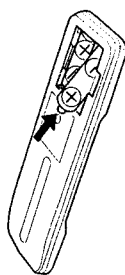
REMOTE CONTROL OPERATION

The accessory Remote Control Unit is used to control the amplifier from a convenient distance.

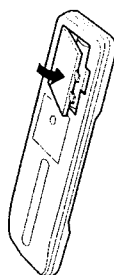
- (1) **Inserting the Dry Cell Batteries**
1. Remove the battery cover on the Remote Control Unit.



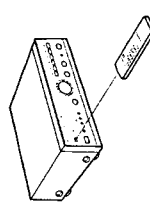
2. Insert two dry cell batteries as shown in the diagram on the battery supply unit.



3. Replace the battery cover.



- (2) **Directions for use**



- Operate the Remote Control Unit while pointing it towards the Remote Control Sensor on the Amplifier as shown in the diagram on the left.
- The Remote Control Unit can be used at distances up to about 8 meters in a straight line from the amplifier. This distance will decrease if there are obstructions blocking the infrared light transmission or if the Remote Control Unit is not directed straight at the amplifier.

Note on operation

- Do not press the operating buttons on the Amplifier and the Remote Control Unit at the same time. This will cause misoperation.
- Operation of the Remote Control Unit will become less effective or erratic if the infrared Remote Control Sensor on the Amplifier is exposed to strong light or if there are obstructions between the Remote Control Unit and the sensor.
- In case you operate a VCR, TV or other components by remote control, do not operate buttons on two different remote control units at the same time. This will cause misoperation.

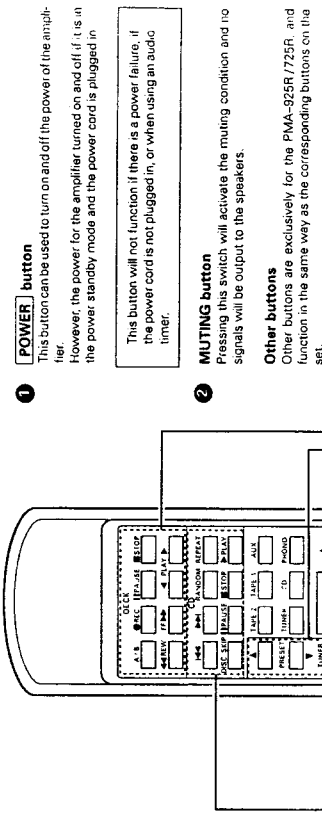
Besides being able to operate the PMA-925R/725R amplifier with this Remote Control Unit, you can also operate a DENON cassette deck and CD player from this handy full-system Remote Control Unit.

Remote control section

Full-system Remote Control Unit

The full-system Remote Control Unit operates all major functions of the Amplifier, such as function switching, volume control. But that's not all! The same control pad can also control the major functions of a DENON CD player and cassette deck and tuner when combined with the PMA-925R/725R to create a remarkably ergonomic and versatile DENON system with all the quality sound reproduction that the devoted audiophile expects.

Remote Control Unit RC-176 supplied with the PMA-925R/725R



1 POWER button

This button can be used to turn on and off the power of the amplifier. However, the power for the amplifier turned on and off if it is in the power standby mode and the power cord is plugged in.

This button will not function if there is a power failure, if the power cord is not plugged in, or when using an auto timer.

2 Muting button

Pressing this switch will activate the muting condition and no signals will be output to the speakers.

Other buttons

Other buttons are exclusively for the PMA-925R/725R, and function in the same way as the corresponding buttons on the set.

▶ PLAY	PLAY button
◀ PLAY (REV)	PLAY (REV) button
■ STOP	STOP button
◀ REW	REWIND button
▶ FF	FF button
● REC	Refer to the operating instructions of your DENON tape deck
■ PAUSE	A/B DECK SELECT button
A/B W-DECK	

TUNER

▶ PLAY	PLAY button
■ STOP	STOP button
◀ REVERSE TRACK	Reverse Track Search button
▶ FORWARD TRACK	Forward Track Search button
RANDOM	Refer to the operating instructions of your DENON CD player
REPEAT	
DISC SKIP	
■ PAUSE	PAUSE button

PRESET buttons

Press this button to move up or down among the preset station numbers.

- The RC-176 Remote Control Unit can control CD players and cassette decks manufactured by DENON.
- Note that operation may not be possible for some models.
- Buttons are conveniently separated into groups, each group controlling one specific component. The groups are AMP, FUNCTION, CD, DECK and TUNER etc.

For details on operating other components, refer to the operating instructions for the CD player and/or cassette deck.

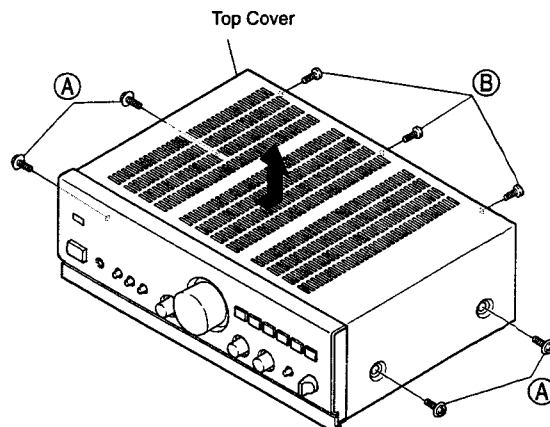
CAUTION:

- If the power is turned off with the Remote Control Unit, the set is switched to the power stand-by state. If you are absent for a long period of time, unplug the power cord.
- Only the MUTE/STANDBY LED lights when in the power stand-by mode.
- You may experience erratic operation of the Remote Control Unit if it is operated in fluorescent light and direct sunlight. In particular if this light strikes the Remote Control Sensor on the Amplifier. However, this is not a malfunction, and if this should happen, simply protect the sensor against such light.

REMOVAL OF EACH SECTION

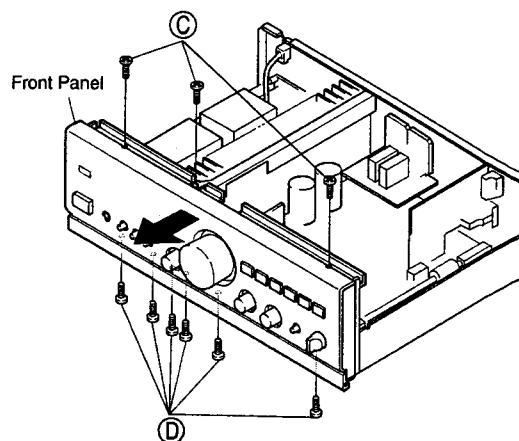
● Top Cover

- 1) Remove 4 screws (A) and 3 screws (B) .
- 2) Pull up Top Cover in arrow direction.



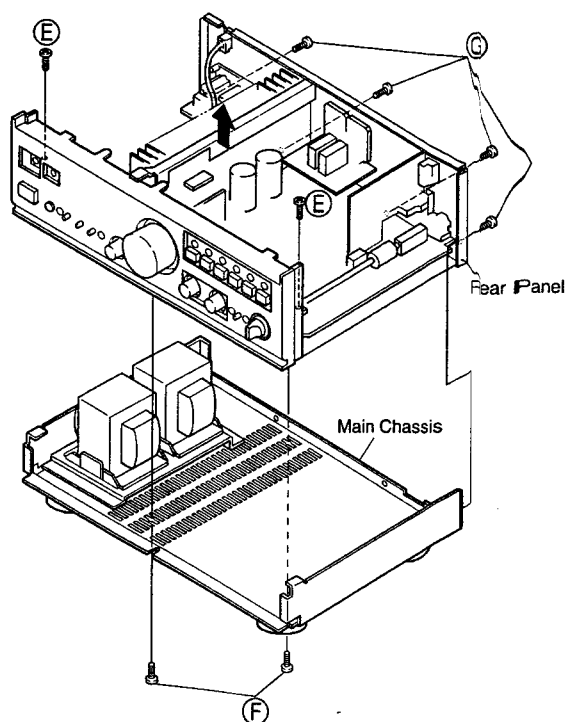
● Front Panel

- 1) Remove 3 screws (C) .
- 2) Remove 6 screws (D) .
- 3) Detach Front Panel in arrow direction.



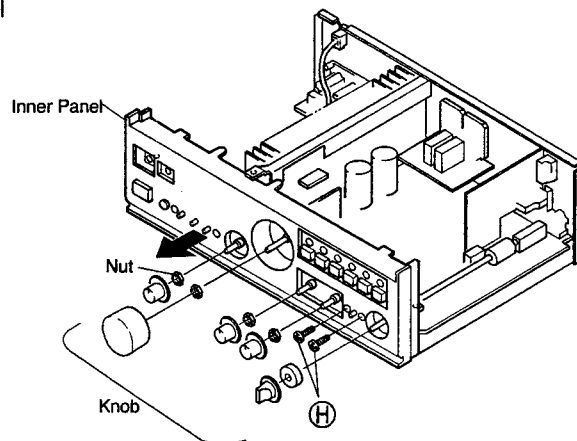
● Main Chassis

- 1) Remove 2 screws (E) .
- 2) Remove 2 screws (F) securing Power Radiator with Main Chassis.
- 3) Remove 4 screws (G) securing Rear Panel with Main Chassis.



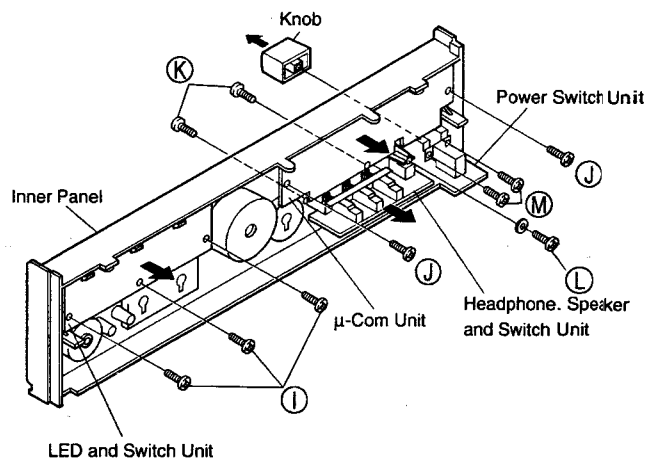
● Inner Panel

- 1) Remove 5 Knobs and 4 nuts.
- 2) Remove 2 screws (H) and detach Inner Panel in arrow direction.



● Each Unit of Inner Panel

- 1) Remove 3 screws (I), and detach LED and Switch Unit.
- 2) Remove 2 screws (J), and detach μ -Com Unit.
- 3) Remove 2 screws (K) securing Headphone, SP Switch Unit with Inner Panel.
- 4) Remove 1 screw (L) and 1 washer, and detach Headphone, SP. switch Unit.
- 5) Remove 2 screws (M) and a Knob, then detach Power Switch Unit.



FUNCTION OF NEW CIRCUIT

1. CHARACTERISTIC OF THIS CIRCUIT

The junction temperature of power amplifier output transistor always varies by an ambient temperature and music signal. Occurrence of junction temperature varying causes in change of bias current, unstable function, thus pure music signal playback is unable to do.

To maintain fixed bias current and to make pure music signal playback possible is the purpose of this circuit. This circuit holds stable bias current condition within a few seconds after turning on the power.

2. BLOCK DIAGRAM OF BIAS CONTROL CIRCUIT FUNCTION

As explained in Fig. 1, detects a voltage across the emitter resistors (RE) of TR1, TR2. Converts the detected voltage and comparing with the reference voltage to make the bias current value in stable state. Actually, these functions are performed by 1 chip IC.

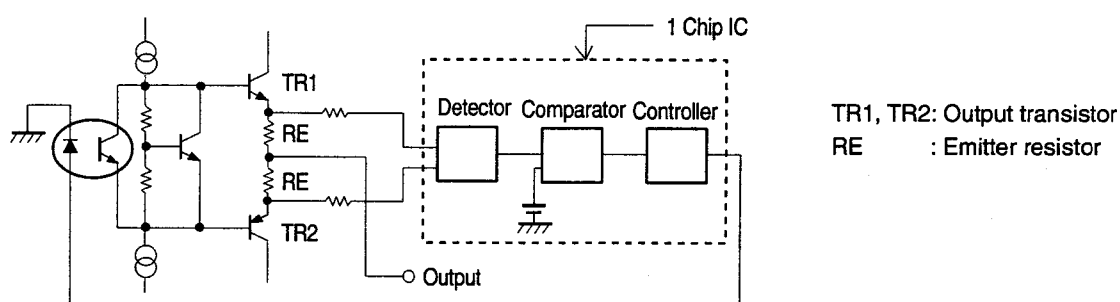


Fig. 1

3. POWER SUPPLY FOR ACTUATING CONTROL CIRCUIT

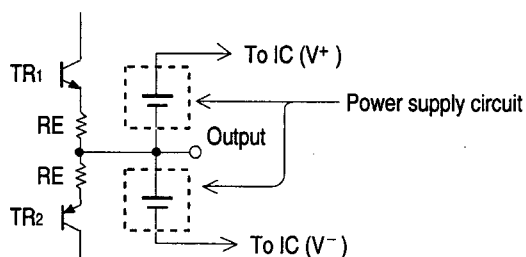


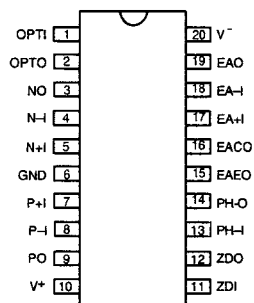
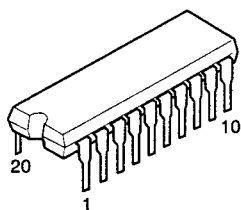
Fig. 2

The circuit (IC) controlling bias current actuates by floating.

Accordingly, the power supply is also needed to be floated.

In this circuit, as indicated in Fig. 2, output is common to provide +, - power system and supplies to IC.

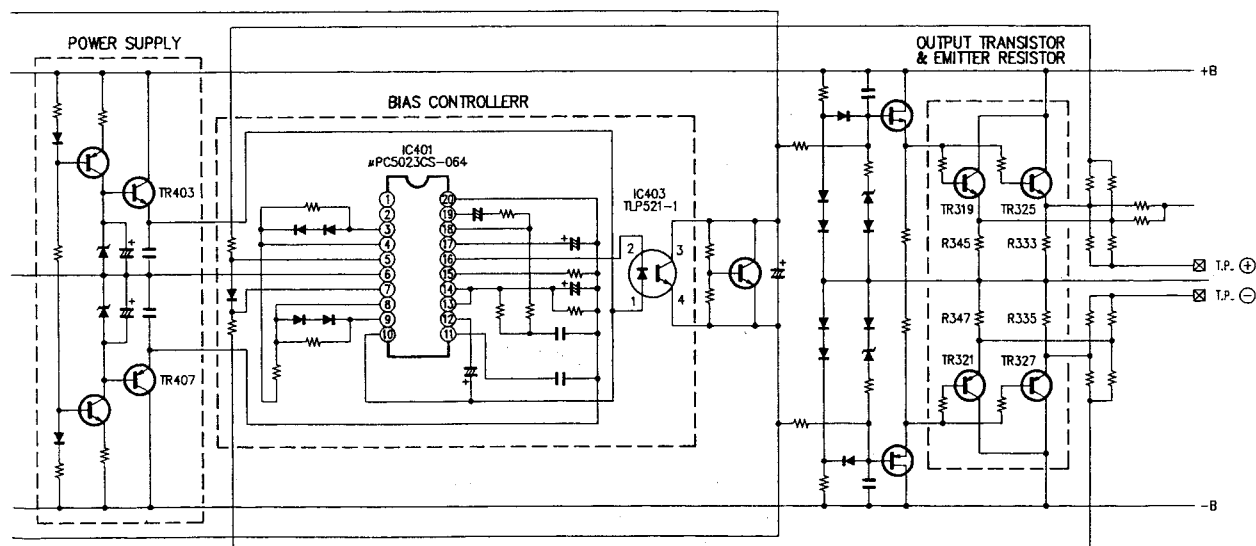
4. IC DESCRIPTION (μ PC5023CS-064)



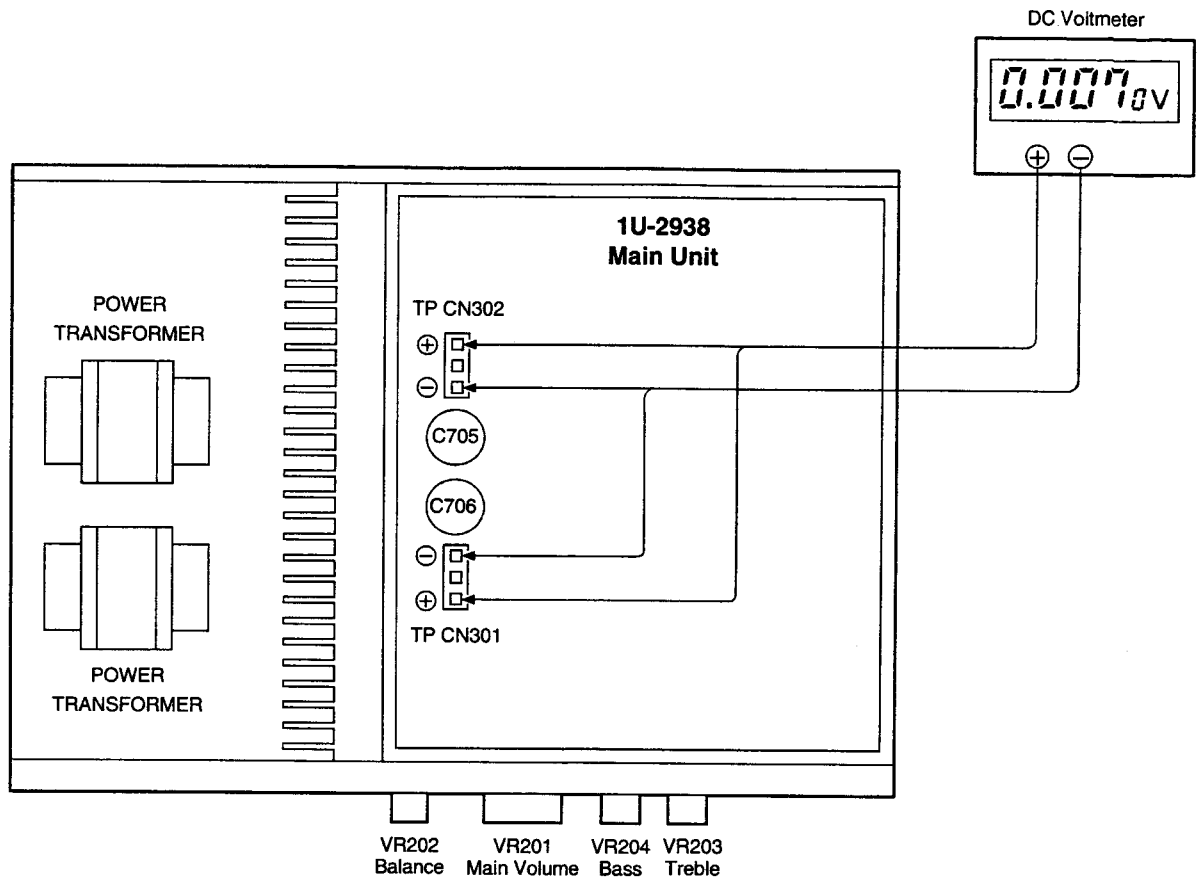
Pin. No.	Name	Contents
1	OPTI	NCP
2	OPTO	
3	NO	Comparator output
4	N-I	Comparator input (-)
5	N+I	Comparator input (+)
6	GND	Floating common
7	P+I	Comparator input (+)
8	P-I	Comparator input (-)
9	PO	Comparator output
10	V+	+ Power supply

Pin. No.	Name	Contents
11	ZDI	Control signal stabilizer input
12	ZDO	Control signal stabilizer output
13	PH-I	Peak hold input
14	PHO	Peak hold output
15	EACO	Controller gain setting
16	EAO	Control signal output
17	EA-I	Reference voltage
18	EA+I	Comparator gain setting
19	EAO	Comparator output
20	V-	- Power supply

5. CIRCUIT IN THE CONCRETE



METHOD OF ADJUSTMENTS



IDLING CURRENT

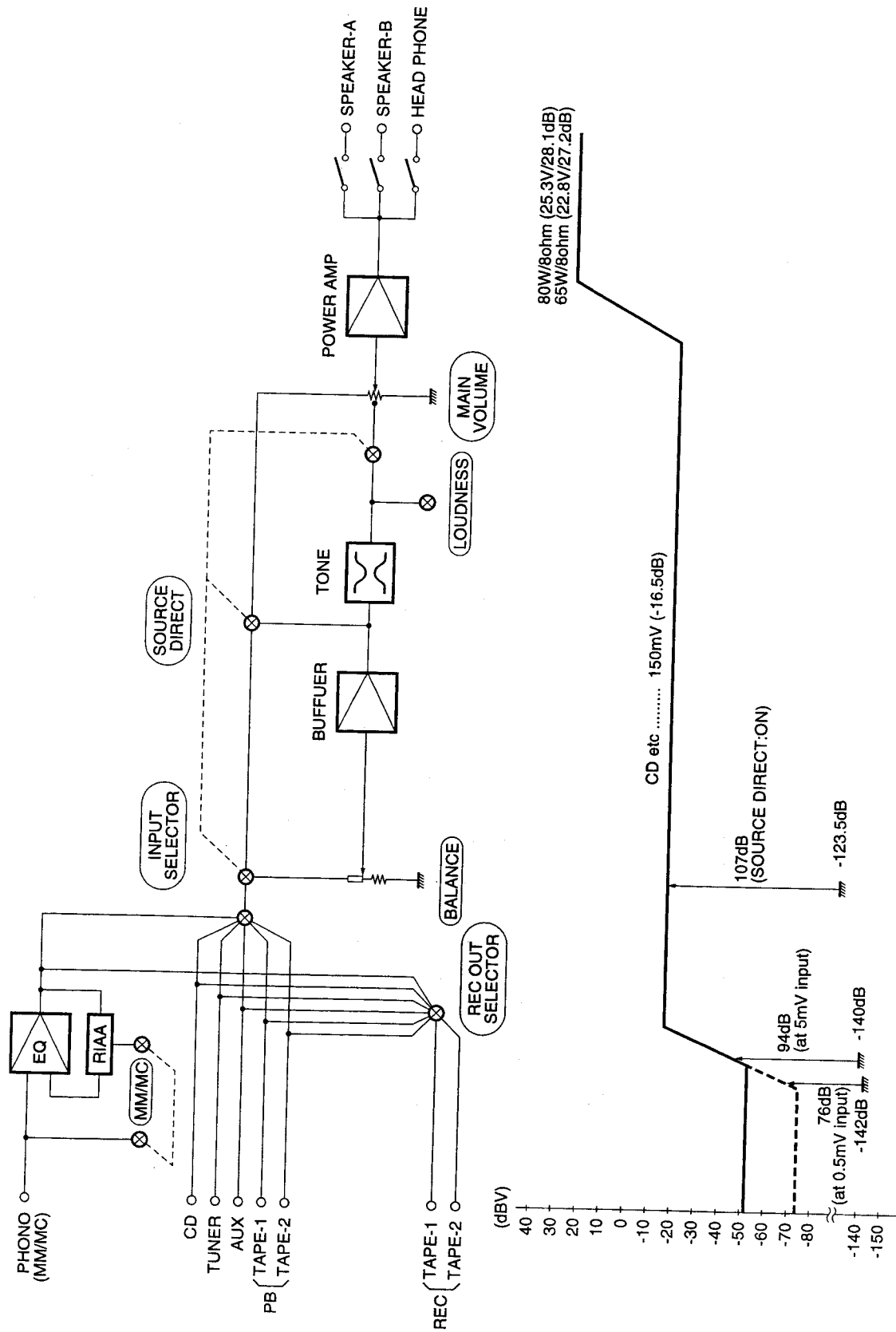
● Setup

1. Lay the unit at an ordinary position away from a direct current from a cooler or fan. Do the adjustment at a temperature between 15°C (59°F) and 30°C (86°F).
2. Set controls as follows.
 POWER SWITCH → OFF (■)
 VOLUME CONTROL → fully counterclockwise. (⤿) min. (Main Volume VR201)
 (VR202, 203 and 204 are center position.)
 SPEAKER Terminals → open: do not connect the speakers, dummy load etc.

● Confirm

1. Remove Top cover. And then connect DC Voltmeter to Test points of Main Unit.
2. Connect Power cord to AC Outlet, and turn POWER Switch "on" (■).
3. 10 seconds after check to see DC Voltmeter reading is $7 \pm 2\text{mV}$.
4. 2 minutes after re-check DC Voltmeter for $7 \pm 2\text{mV}$ reading.

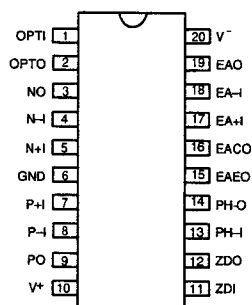
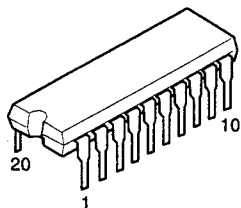
BLOCK AND LEVEL DIAGRAM



SEMICONDUCTORS

● IC's

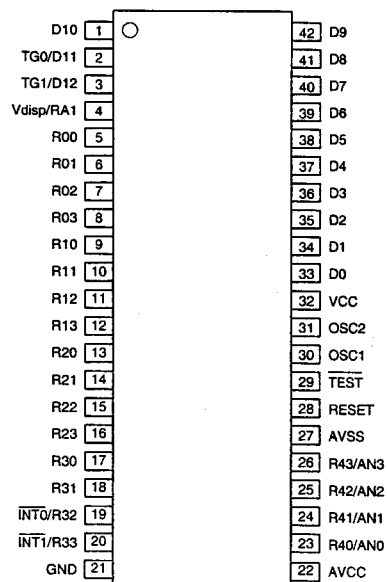
μPC5023CS-064 (IC401,402)



Pin. No.	Name	Contents
1	OPTI	NCP
2	OPTO	
3	NO	Comparator output
4	N-I	Comparator input (-)
5	N+I	Comparator input (+)
6	GND	Floating common
7	P-I	Comparator input (+)
8	P-I	Comparator input (-)
9	PO	Comparator output
10	V+	+ Power supply

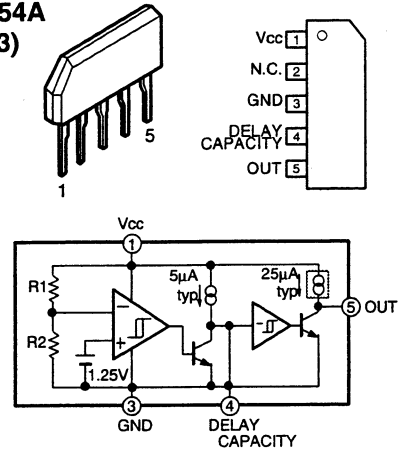
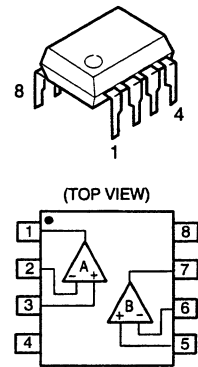
Pin. No.	Name	Contents
11	ZDI	Control signal stabiliser input
12	ZDO	Control signal stabiliser output
13	PH-I	Peak hold input
14	PHO	Peak hold output
15	EAEO	Controller gain setting
16	EACO	Control signal output
17	EA-I	Reference voltage
18	EA-1	Comparator gain setting
19	EAO	Comparator output
20	V-	- Power supply

HD404304A13P (IC801)

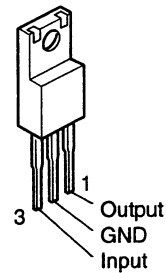
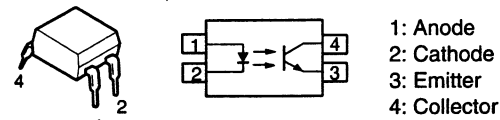
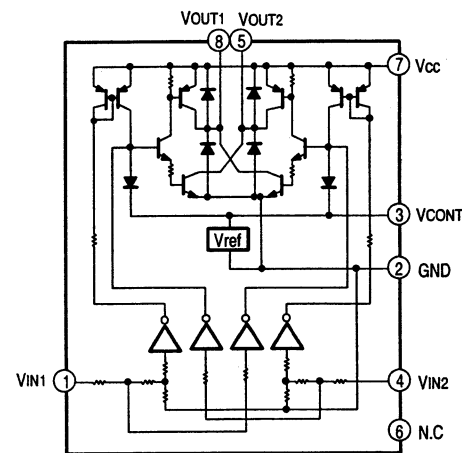
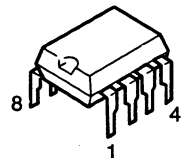
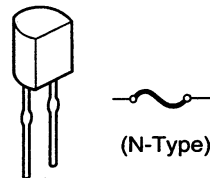
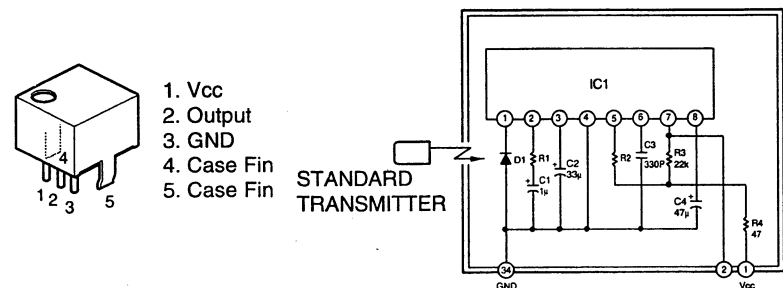


HD404304A13P Terminal Function

Pin No.	Name	I/O	Contents	Active
1	D10	O	MUTE/STANDBY LED Indication	H
2	TG0/D11	O	NOP	
3	TG1/D12	O	Power Control (REMOTE Power-ON/OFF)	L
4	Vdisp/RA1	I	NOP	
5	R00	O	NOP	
6	R01	O	Muting Control (Power ON-OFF, Function Shifting, MUTING)	L
7	R02	O	SP-A Control	H
8	R03	O	SP-B Control	H
9	R10	O	Key scan strobe	H
10	R11	O		H
11	R12	O		H
12	R13	O	NOP	
13	R20	I	Key scan receive	
14	R21	I		
15	R22	I		
16	R23	I		
17	R30	O	Volume Control "UP" → "H"	H
18	R31	O	Volume Control "DOWN" → "H"	H
19	INT0/R32	I	Power Breakdown detect input	
20	INT1/R33	I	Remote control signal decoding input	
21	GND			
22	AVcc		Avcc (Vcc)	
23	R40/AN0		NOP	
24	R41/AN1	I	NOP	
25	R42/AN2	I	NOP	
26	R43/AN3	I	Discrimination port by user's genre	
27	AVss		AVss (GND)	
28	RESET		M51954A; External	
29	TEST		Vcc	
30	OSC1		Celler Fill Oscillator 4MHz; External	
31	OSC2		Celler Fill Oscillator 4MHz; External	
32	Vcc		Vcc	
33	D0	O	NOP	
34	D1	O	NOP	
35	D2	O	TAPE-2 Control	H
36	D3	O	TAPE-1 Control	H
37	D4	O	NOP	
38	D5	O	AUX Control	H
39	D6	O	TUNER Control	H
40	D7	O	NOP	
41	D8	O	CD Control	H
42	D9	O	PHONO Control	H

**M51954A
(IC803)****BA4558 (IC201, 901)
NJM2068DDC (IC202)**

1. A OUTPUT
2. A-INPUT
3. A+INPUT
4. V-
5. B+INPUT
6. B-INPUT
7. B OUTPUT
8. V+

NJM7806FA(S) (IC702)**TLP521-1(BL)
INFRARED LED + PHOTO TRANSISTOR
(IC403, 404)****LB1639 (IC802)****IC PROTECTOR
ICP-15 (IC701)****SBX1610-52 (Remote Control Receiver) (IC105)**

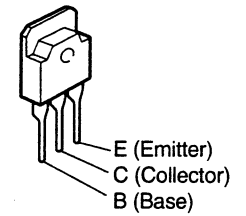
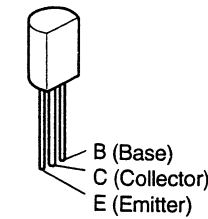
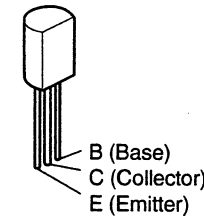
- IC1 : CX20106A Chip
 D1 : PIN Photo Diode Chip
 C1, C2, C4 : Aluminum Electrolytic Capacitor
 C3 : SL Characteristic $\pm 5\%$
 R1 : Gain Adjuster
 R2 : fo Adjuster $\pm 1\%$ USE
 R3, 4 : $\pm 5\%$

TRANSISTORS

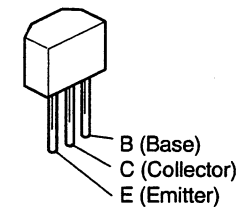
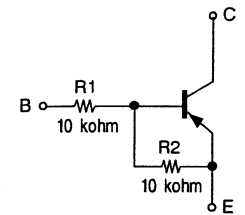
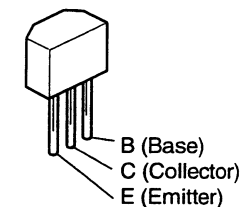
2SA970 (BL), (BL/GR)
 2SA988 (E/F)
 2SC1841 (E/F)
 2SC1815 (BL)
 2SC2240 (BL/GR)

2SA1145 (O)/(Y)
 2SC2705 (O)/(Y)

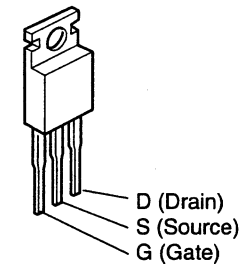
2SA1491 (O/P/Y)/(Z) PMA-925R
 2SC3855 (O/P/Y)/(Z) PMA-925R
 2SB1560 (O/P/Y) PMA-725R
 2SD2390 (O/P/Y) PMA-725R



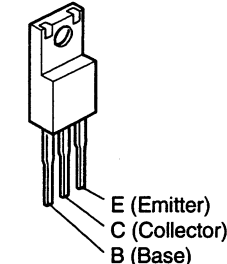
2SA1038S (S/E)
 2SA933S (S)
 2SC2389S (S/E)
 2SSC1740S (S)

**DTA114ES**

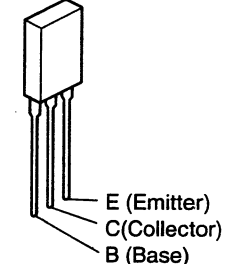
2SJ78
 2SK215



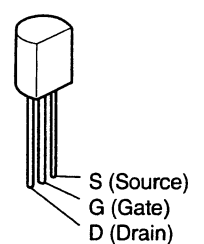
2SD2395 (E/F)
 2SB1566 (E/F)



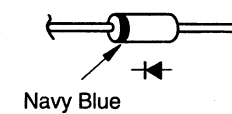
2SB1328 (P)



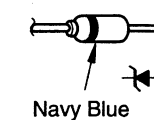
2SK369 (BL)/(GR)-C

**DIODES (including LED)**

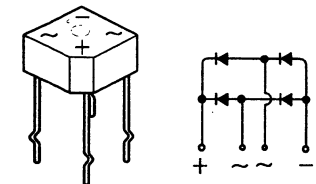
1SS252



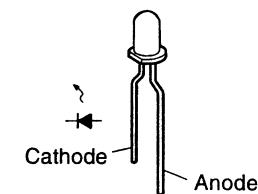
MTZJ 3.9A MTZJ 36A
 MTZJ 7.5A MTZJ 16A
 MTZJ 18A



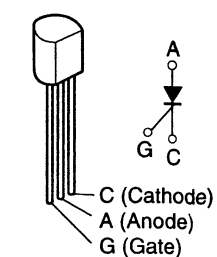
S4VB20F (D702) PMA-725R
 4D4B42 (D702) PMA-925R



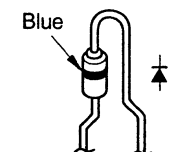
SLR56-VR (Red)
 SLR56-DU (Orange)



Thyristor
 SF0R1A42 (SC601)



1SR35-200A



PRINTED WIRING BOARD (Pattern Side)

1 2 3 4 5 6 7 8

1U-2938C MAIN UNIT ASS'Y FOR PMA-925R

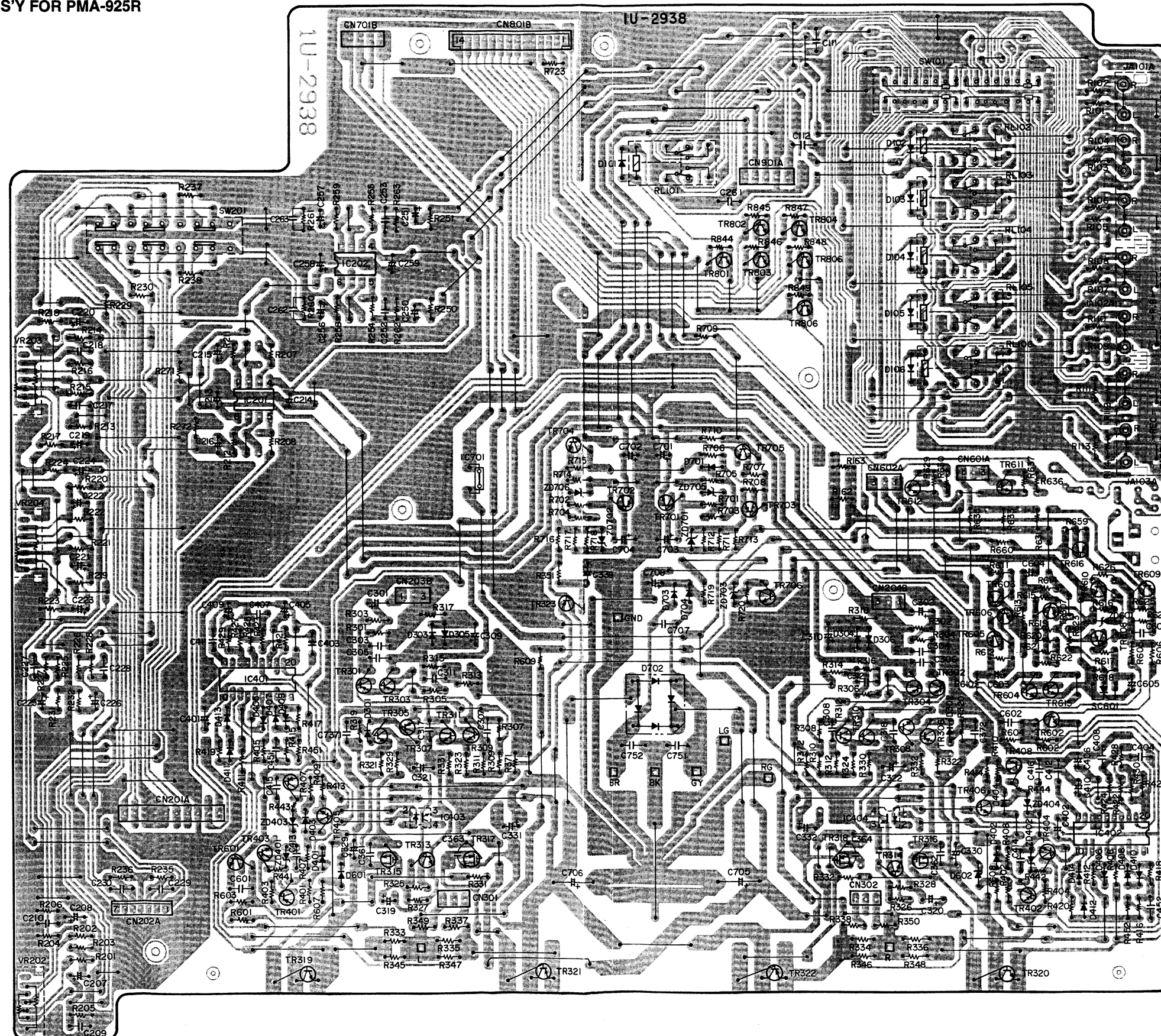
A

B

C

D

E



1 2 3 4 5 6 7 8

1U-2939A μ -COM. UNIT ASS'Y

1U-2939A μ -Com. Unit Ass'y	
-1	μ -Com. Unit
-2	LED Unit
-3	Phono Unit
-4	Supply Unit

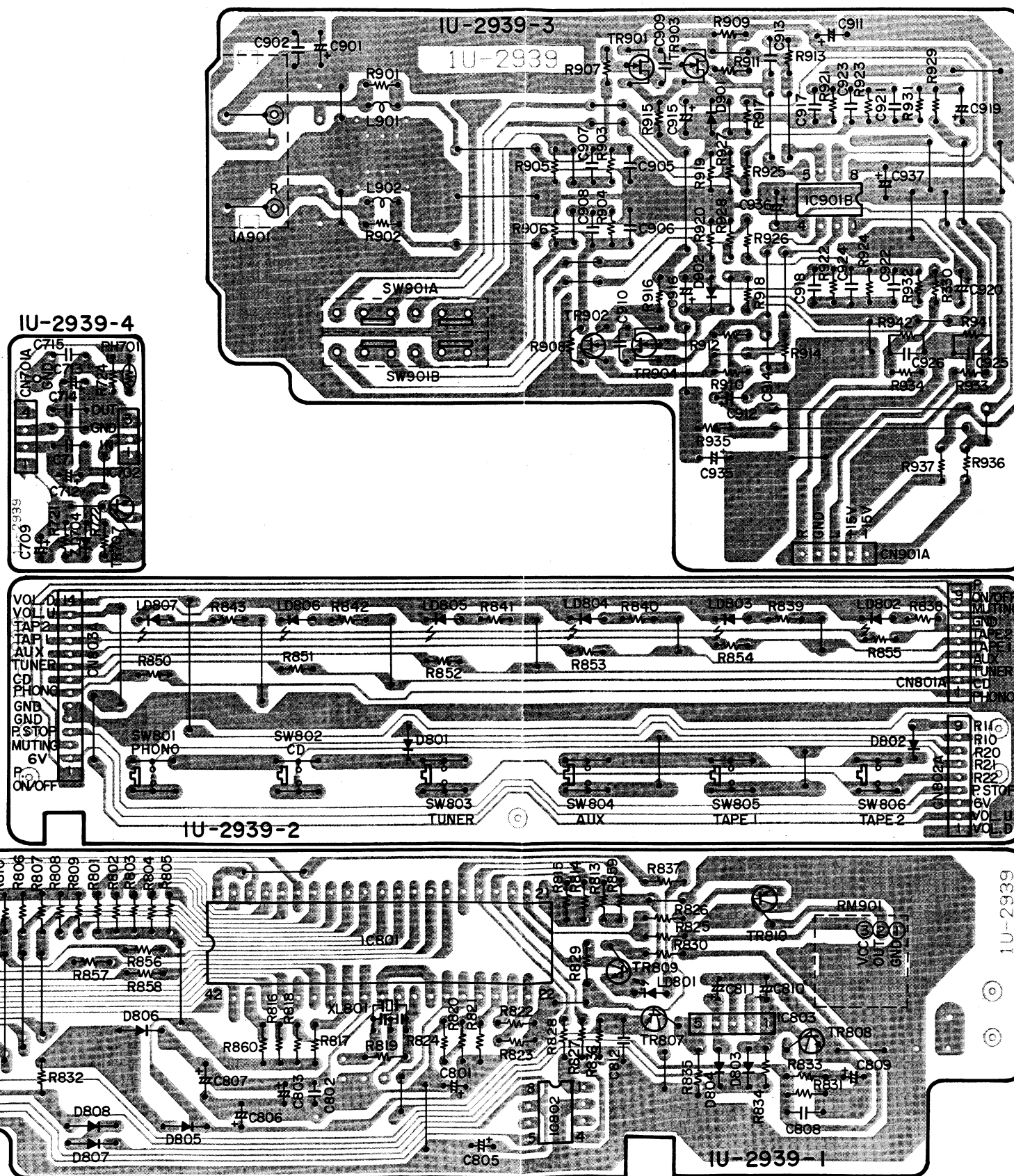
A

B

C

D

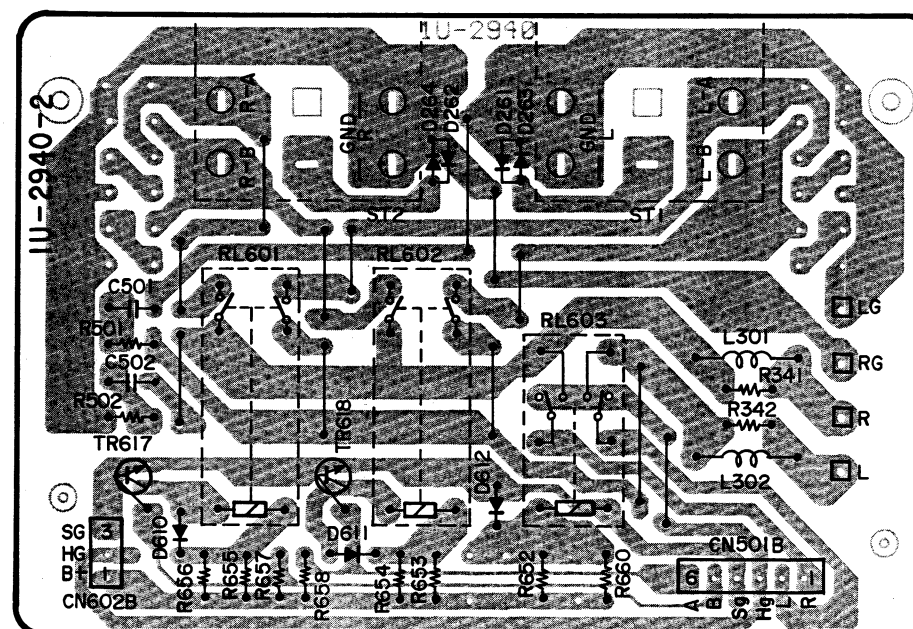
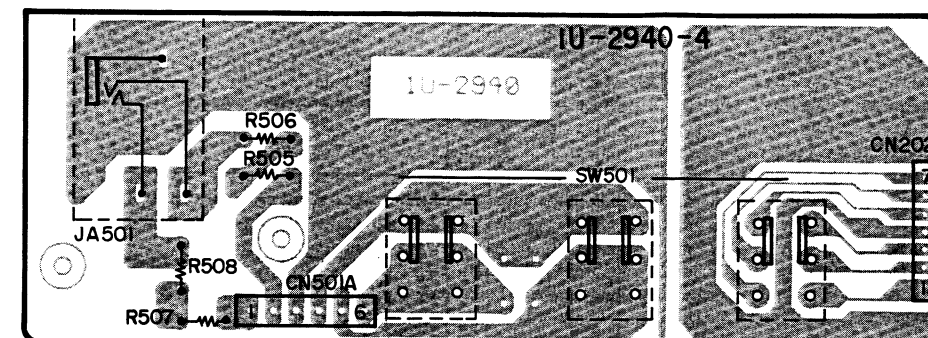
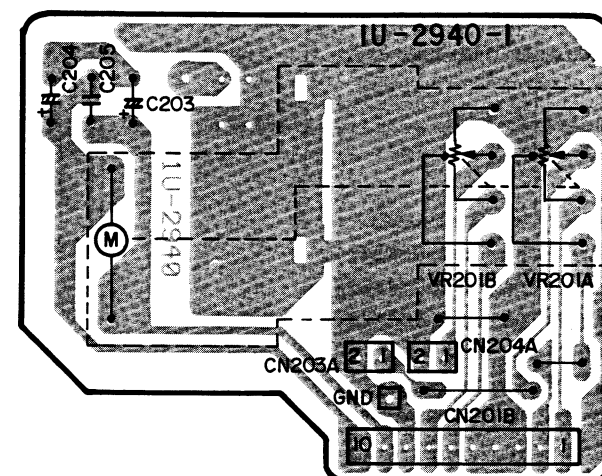
E



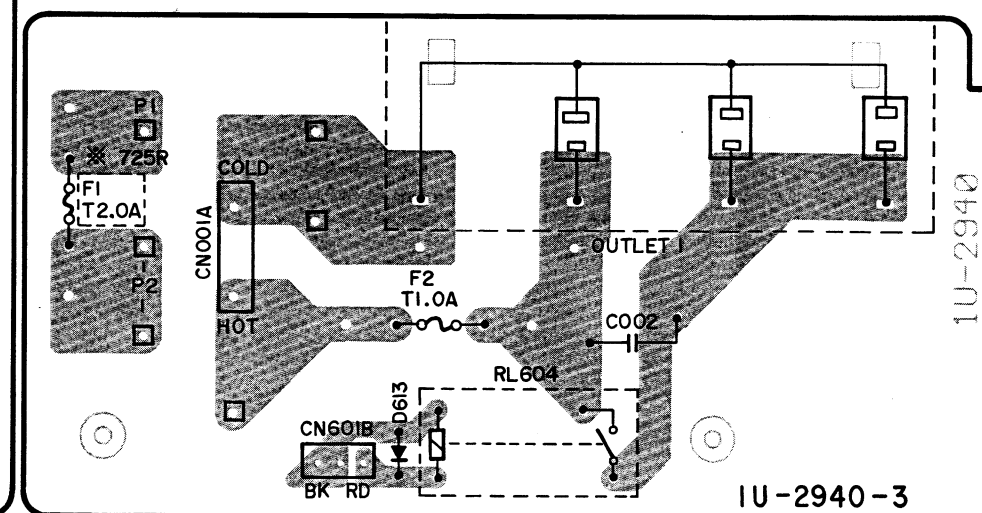
1 2 3 4 5 6 7 8

1U-2940 VOLUME UNIT ASS'Y
 1U-2940A : PMA-725R EUROPE Model
 1U-2940B : PMA-725R U.K. Model
 1U-2940C : PMA-925R

1U-2940 Volume Unit Ass'y	
-1	Volume Unit
-2	Speaker Unit
-3	AC Outlet Unit
-4	Speaker Sel. Unit



※ PMA-925R : F1 T2.5A



NOTE FOR PARTS LIST

- Part indicated with the mark "◎" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film $\pm 5\%$, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

WARNING:

Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

● Resistors

Ex.:	RN	14K	2E	182	G	FR
	Type	Shape and performance	Power	Resistance	Allowable error	Others
RD : Carbon			2B : 1/8W	F : $\pm 1\%$		P : Pulse-resistant type
RC : Composition			2E : 1/4W	G : $\pm 2\%$		NL : Low noise type
RS : Metal oxide film			2H : 1/2W	J : $\pm 5\%$		NB : Non-burning type
RW : Winding			3A : 1W	K : $\pm 10\%$		FR : Fuse-resistor
RN : Metal film			3D : 2W	M : $\pm 20\%$		F : Lead wire forming
RK : Metal mixture			3F : 3W			
			3H : 5W			

● Resistance

1 8 2 \Rightarrow 1800 ohm = 1.8 kohm
Indicates number of zeros after effective number.
2-digit effective number.

• Units: ohm

1 R 2 \Rightarrow 1.2 ohm
1-digit effective number.
2-digit effective number, decimal point indicated by R.

• Units: ohm

● Capacitors

Ex.:	CE	04W	1H	2R2	M	BP
	Type	Shape and performance	Dielectric strength	Capacity	Allowable error	Others
CE : Aluminum foil electrolytic			0J : 6.3V	F : $\pm 1\%$		HS : High stability type
CA : Aluminum solid electrolytic			1A : 10V	G : $\pm 2\%$		BP : Non-polar type
CS : Tantalum electrolytic			1C : 16V	J : $\pm 5\%$		HR : Ripple-resistant type
CO : Film			1E : 25V	K : $\pm 10\%$		DL : For charge and discharge
CK : Ceramic			1V : 35V	M : $\pm 20\%$		HF : For assuring high frequency
CC : Ceramic			1H : 50V	Z : $\pm 80\%$		U : UL part
CP : Oil			2A : 100V	-20%		C : CSA part
CM : Mica			2B : 125V	P : $\pm 100\%$		W : UL-CSA type
CF : Metallized			2C : 160V	-0%		F : Lead wire forming
CH : Metallized			2D : 200V	C : $\pm 0.25\text{pF}$		
			2E : 250V	D : $\pm 0.5\text{pF}$		
			2H : 500V	= : Others		
			2J : 630V			

● Capacity (electrolyte only)

2 2 2 \Rightarrow 2200 μF
Indicates number of zeros after effective number.
2-digit effective number.

• Units: μF .

2 R 2 \Rightarrow 2.2 μF
1-digit effective number.
2-digit effective number, decimal point indicated by R.

• Units: μF .

● Capacity (except electrolyte)

2 2 2 \Rightarrow 2200pF = 0.0022 μF
(More than 2) — Indicates number of zeros after effective number.
2-digit effective number.

• Units: pF.

2 2 1 \Rightarrow 220pF
(0 or 1) — Indicates number of zeros after effective number.
2-digit effective number.

• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

PARTS LIST OF P.W.B. UNIT ASS'Y

1U-2938C MAIN UNIT ASS'Y (PMA-925R)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP				RESISTORS GROUP			
IC201	263 0322 004	IC BA4558	Linear ope. amp	△ D702	276 0424 005	Diode 4D4B42(LC1)	Bridge
IC202	263 0609 002	IC NJM2068DDC		D703,704	276 0553 905	Diode 1SR35-200A	
IC401,402	263 0930 001	IC $\mu\text{PC5023CS-064}$	Bias IC	ZD401-404	276 0643 954	Zener diode MTZJ3.9A	3.9 V
IC403,404	262 0874 009	IC TLP521-1(BL)		ZD601	276 0644 911	Zener diode MTZJ7.5A	7.5 V
IC701	268 0073 905	IC ICP-N15	IC protector	ZD701,702	276 0645 978	Zener diode MTZJ36A	36 V
TR301-304	271 0094 919	Transistor 2SA970(BL)		ZD703	276 0644 911	Zener diode MTZJ7.5A	7.5 V
TR305,306	271 0131 924	Transistor 2SA988(E/F)		ZD705,706	276 0645 907	Zener diode MTZJ18A	18 V
TR307-312	273 0235 923	Transistor 2SC1841(E/F)		SC601	279 0016 904	Thyristor SF0R1A42	
TR313,314	273 0303 910	Transistor 2SC1740S(S)					
TR315,316	275 0069 001	Transistor 2SK215	N type FET				
TR317,318	275 0068 002	Transistor 2SJ78	P type FET				
TR323	271 0131 924	Transistor 2SA988(E/F)		VR202	211 0798 103	Variable resistor 100kohm	Balance
TR401,402	271 0280 901	Transistor 2SA1038S(S/E)		VR203	211 0834 012	Variable resistor 10kohm	Treble
TR403,404	273 0281 906	Transistor 2SC2705(O)/(Y)		VR204	211 0834 009	Variable resistor 30kohm	Bass
TR405,406	273 0432 904	Transistor 2SC2389S(S/E)		△ R116	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F22JNBS(S)
TR407,408	271 0168 900	Transistor 2SA1145(O)/(Y)		△ R162	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F22JNBS(S)
TR601,602	273 0235 923	Transistor 2SC1841(E/F)		△ R309-312	241 2380 963	Carbon film 2.2kohm 1/4W	RD14B2E22JNBS
TR603-605	273 0303 910	Transistor 2SC1740S(S)		△ R317,318	241 2377 963	Carbon film 120ohm 1/4W	RD14B2E12JNBS
TR606	271 0192 905	Transistor 2SA933S(S)		△ R319-322	241 2377 976	Carbon film 130ohm 1/4W	RD14B2E13JNBS
TR607	273 0235 923	Transistor 2SC1841(E/F)		△ R323,324	241 2315 987	Fusible resistor 68ohm 1/4W	RD14B2E68JGFRS
TR608	271 0094 935	Transistor 2SA970(BL/GR)		△ R325,326	241 2380 950	Carbon film 2kohm 1/4W	RD14B2E20JNBS
TR609	272 0107 906	Transistor 2SB1328(P)		△ R327,328	241 2379 929	Carbon film 560ohm 1/4W	RD14B2E56JNBS
TR610-612	273 0235 923	Transistor 2SC1841(E/F)		△ R331,332	241 2378 920	Carbon film 220ohm 1/4W	RD14B2E22JNBS
TR615	273 0303 910	Transistor 2SC1740S(S)		△ R333-336	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3AR2JNBS(S)
TR616	272 0107 906	Transistor 2SB1328(P)		△ R345-348	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3AR2JNBS(S)
TR701	274 0168 006	Transistor 2SD2395(E/F)		△ R351	241 2379 987	Carbon film 1kohm 1/4W	RD14B2E10JNBS
TR702	272 0129 007	Transistor 2SB1566(E/F)		△ R401,402	241 2379 916	Carbon film 510ohm 1/4W	RD14B2E51JNBS
TR703	271 0280 901	Transistor 2SA1038S(S/E)		△ R403,404	241 2378 946	Carbon film 270ohm 1/4W	RD14B2E27JNBS
TR704,705	273 0432 904	Transistor 2SC2389S(S/E)		△ R408,410	241 2379 916	Carbon film 510ohm 1/4W	RD14B2E51JNBS
TR706	273 0303 910	Transistor 2SC1740S(S)		△ R413,414	241 2378 946	Carbon film 270ohm 1/4W	RD14B2E27JNBS
TR801-806	273 0235 923	Transistor 2SC1841(E/F)		△ R441-444	241 2379 987	Carbon film 1kohm 1/4W	RD14B2E10JNBS
D101-106	276 0616 907	Diode 1SS252		△ R601-604	241 2380 950	Carbon film 2kohm 1/4W	RD14B2E20JNBS
D301-306	276 0616 907	Diode 1SS252		△ R631	244 2069 018	Metal oxide 3kohm 5W	RS14B3H302JNBS(S)
D351,352	276 0616 907	Diode 1SS252		△ R633	244 2069 018	Metal oxide 3kohm 5W	RS14B3H302JNBS(S)
D401-414	276 0616 907	Diode 1SS252		△ R635	244 2069 018	Metal oxide 3kohm 5W	RS14B3H302JNBS(S)
D601,602	276 0616 907	Diode 1SS252		△ R711,712	244 2043 908	Metal oxide 680ohm 1W	RS14B3A681JNBS(S)
D701	276 0553 905	Diode 1SR35-200A		△ R713	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNBS
				△ R716	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNBS
				△ R717,718	244 2043 908	Metal oxide 680ohm 1W	RS14B3A681JNBS(S)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
CAPACITORS GROUP							
C111,112	253 4444 907	Ceramic cap. 220pF/50V	CC45SL1H221J	C701,702	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
C207,208	254 4260 980	Electrolytic 10μF/50V	CE04W1H100M	C703,704	254 4261 921	Electrolytic 100μF/50V	CE04W1H101M
C209,210	253 4537 982	Ceramic cap. 56pF/50V	CC45SL1H560J	C705,706	254 6206 007	Electrolytic 12000μF/63V	CE68W1J123MC(DL)
C213,214	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M	C707	256 1042 903	Metalized 0.1μF/250V	CF93A2E104K
C215,216	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M	C708	254 4263 916	Electrolytic 0.22μF/100V	CE04W2AR22M
C217,218	255 1265 994	Film cap. 0.033μF/50V	CQ93M1H333J(B)				
C219,220	254 4260 919	Electrolytic 0.22μF/50V	CE04W1HR22M				
C221,222	254 4260 906	Electrolytic 0.1μF/50V	CE04W1H0R1M				
C223,224	254 4260 935	Electrolytic 0.47μF/50V	CE04W1HR47M				
C225,226	254 4260 922	Electrolytic 0.33μF/50V	CE04W1HR33M				
C227,228	256 1034 953	Metalized 0.068μF/50V	CF93A1H683J				
C229,230	255 1265 994	Film cap. 0.033μF/50V	CQ93M1H333J(B)				
C250,251	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M				
C252,253	255 4237 929	Film cap. 56pF/100V	CQ93P2A560J(NH)				
C256,257	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M				
C258,259	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M				
C261	253 1181 917	Ceramic cap. 0.022μF/50V	CK45F1H223Z				
C262,263	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)				
C301,302	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M				
C303,304	255 4235 918	Film cap. 100pF/100V	CQ93P2A101J(NH)				
C305,306	255 6177 980	Film cap. 220pF/50V	CQ09S1H221J(STM)				
C307,308	255 1264 908	Film cap. 1000pF/50V	CQ93M1H102J(B)				
C309,310	254 4252 082	Electrolytic 2200μF/10V	CE04W1A222M				
C311,312	255 4237 929	Film cap. 56pF/100V	CQ93P2A560J(NH)				
C317,318	253 4470 900	Ceramic cap. 10pF/500V	CC45SL2H100D				
C319-322	254 4261 921	Electrolytic 100μF/50V	CE04W1H101M				
C329-332	254 4262 904	Electrolytic 4.7μF/63V	CE04W1J4R7M				
C339	254 4262 755	Electrolytic 100μF/63V	CE04W1J101MC				
C361,362	253 4490 906	Ceramic cap. 68pF/500V	CC45SL2H680J				
C363,364	253 4470 900	Ceramic cap. 10pF/500V	CC45SL2H100D				
C371,372	255 6178 947	Film cap. 680pF/50V	CQ09S1H681J(STM)				
C401,402	254 4261 918	Electrolytic 47μF/50V	CE04W1H470M				
C403,404	254 3056 959	Electrolytic 10μF/50V	CE04D1H100MBP (Bipole)				
C405,406	254 4260 993	Electrolytic 22μF/50V	CE04W1H220M				
C407,408	255 1264 908	Film cap. 1000pF/50V	CQ93M1H102J(B)				
C409,410	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M				
C411,412	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)				
C413-416	256 1034 979	Metalized 0.1μF/50V	CF93A1H104J				
C451,452	253 1179 987	Ceramic cap. 470pF/50V	CK45B1H471K				
C601,602	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)				
C603	254 4250 945	Electrolytic 330μF/6.3V	CE04W0J331M				
C604	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M				
C605	254 4252 901	Electrolytic 22μF/10V	CE04W1A220M				
C606	255 1265 978	Film cap. 0.022μF/50V	CQ93M1H223J(B)				

1U-2939A μ -COM UNIT ASS'Y (PMA-925R)

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP				OTHERS PARTS GROUP			
IC105	499 0150 008	IC SBX1610-52	Remote sensor	C809	254 4196 973	Electrolytic 4.7 μ F/50V	CE04W1H4R7M(SRA)
IC702	263 0793 002	IC NJM7806FA(S)	Regulator +6 V	C810	254 4196 944	Electrolytic 1 μ F/50V	CE04W1H010M(SRA)
IC801	262 1579 303	IC HD404304A13P	μ -com	C811	254 4196 928	Electrolytic 0.33 μ F/50V	CE04W1HR33M(SRA)
IC802	263 0476 002	IC LB1639	Motor driver	C812	256 1034 982	Metallized 0.12 μ F/50V	CF93A1H124J
IC803	263 0535 008	IC M51954AL	Reset IC	C901	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M
IC901	263 0322 004	IC BA4558		C902	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H223Z
TR707	274 0168 006	Transistor 2SD2395(E/F)		C905,906	253 1179 929	Ceramic cap. 150pF/50V	CK45B1H151K
TR807	271 0192 905	Transistor 2SA933S(S)		C907,908	253 1179 961	Ceramic cap. 330pF/50V	CK45B1H331K
TR808,809	273 0303 910	Transistor 2SC1740S(S)		C909,910	253 1179 903	Ceramic cap. 100pF/50V	CK45B1H101K
TR810	269 0046 906	Transistor DTA114ES	Built in resistor	C911,912	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M
TR901~904	275 0038 045	Transistor 2SK369(BL)/(GR)-C	N type FET Δ VGS	C913,914	255 1251 937	Film cap. 3300pF/50V	CQ92M1H332J(MRZ)
D801~805	276 0616 907	Diode 1SS252		C915,916	254 4252 930	Electrolytic 100 μ F/10V	CE04W1A101M
D806	276 0553 905	Diode 1SR35-200A		C917,918	256 1034 953	Metallized 0.068 μ F/50V	CF93A1H683J
D807,808	276 0616 907	Diode 1SS252		C919,920	254 4254 909	Electrolytic 10 μ F/16V	CE04W1C100M
D901,902	276 0616 907	Diode 1SS252		C921,922	255 4223 959	Film cap. 0.018 μ F/50V	CQ92M1H183J(MRZ)
ZD704	276 0644 995	Zener diode MTZJ16A	16 V	C923,924	255 1264 911	Film cap. 1200pF/50V	CQ93M1H122J(B)
LD801	393 9559 904	LED SLR-56DUTB7	Orange	C925,926	253 1179 961	Ceramic cap. 330pF/50V	CK45B1H331K
LD802~807	393 9515 906	LED SLR-56VR70	Red	C935	254 4252 930	Electrolytic 100 μ F/10V	CE04W1A101M
PH701	279 0034 041	Posistor PTH9M04BD222TS2F333		C936,937	254 4256 936	Electrolytic 47 μ F/25V	CE04W1E470M
RESISTORS GROUP							
Δ R832	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNBS				
Δ R836,937	241 2377 905	Carbon film 68ohm 1/4W	RD14B2E680JNBS				
CAPACITORS GROUP							
C709	254 4263 916	Electrolytic 0.22 μ F/100V	CE04W2AR22M				
C711	253 1181 904	Ceramic cap. 0.01 μ F/50V	CK45F1H103Z				
C712,713	254 4260 980	Electrolytic 10 μ F/50V	CE04W1H100M				
C714,715	253 1181 904	Ceramic cap. 0.01 μ F/50V	CK45F1H103Z				
C801	254 4213 937	Electrolytic 100 μ F/6.3V	CE04W0J101M(SRA)				
C802	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H223Z				
C803	254 4213 937	Electrolytic 100 μ F/6.3V	CE04W0J101M(SRA)				
C805	254 4213 937	Electrolytic 100 μ F/6.3V	CE04W0J101M(SRA)				
C806	254 6190 906	Electrolytic 330 μ F/6.3V	CE04W0J331M(SRA)				
C807	259 0007 003	Back up cap. 8200 μ F/5.5V	SB CAP=822=				
C808	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H223Z				

1U-2938 MAIN UNIT ASS'Y (PMA-725R)

1U-2938A : Europe model

1U-2938B : U.K. model

1U-2940C VOLUME UNIT ASS'Y (PMA-925R)

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
TR617,618	273 0235 923	Transistor 2SC1841(E/F)	
D001	276 0616 907	Diode 1SS252	
D441-444	276 0616 907	Diode 1SS252	
D610-612	276 0616 907	Diode 1SS252	
RESISTORS GROUP(Not included carbon film $\pm 5\%$, 1/4W)			
VR201	211 0869 003	Variable resistor 30kohm	Main volume
Δ R341,342	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3AR22JNBS(S)
Δ R501,502	244 2043 937	Metal oxide 10ohm 1W	RS14B3A100JNBS(S)
Δ R505-508	244 2050 933	Metal oxide 180ohm 1W	RS14B3A181JNBS(S)
Δ R652	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F222JNB
Δ R653	244 2069 018	Metal oxide 3kohm 5W	RS14B3H302JNB(S)
Δ R654	244 2069 005	Metal oxide 2.4kohm 5W	RS14B3H242JNB(S)
Δ R655	244 2069 018	Metal oxide 3kohm 5W	RS14B3H302JNB(S)
Δ R656	244 2069 005	Metal oxide 2.4kohm 5W	RS14B3H242JNB(S)
Δ R660	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F222JNB
CAPACITORS GROUP			
Δ C002	253 8003 713	Ceramic cap. 4700pF/400V AC	CK45E2GAC472MC
C203,204	254 4254 909	Electrolytic 10 μ F/16V	CE04W1C100M
C205	255 1265 936	Film cap. 0.01 μ F/50V	CQ93M1H103J(B)
C501,502	256 1034 979	Metalized 0.1 μ F/50V	CF93A1H104J
OTHERS PARTS GROUP			
	—	(P.W.board)	Q'ty
			(1)
L301,302	235 0104 007	Inductor(1mH)	2
	202 0022 008	Fuse holder	4
Δ F001	206 1015 032	Fuse(2.5A)	1
Δ F002	206 1015 029	Fuse(1A T)	1
	513 0654 017	Fuse label (T. 25A)	1
Δ	415 0299 000	Capacitor cover	1
Δ RL001	214 0142 004	Relay(TV-5)	1
RL601,602	214 0129 001	Relay(DH2TU)	2
RL603	214 0178 007	Relay(MR62-12USRY)	1
SW501	212 1162 003	3P push switch	1
	205 0484 001	8P speaker terminal	1
	204 8503 004	:Head phone jack	1
Δ	203 3950 002	3P AC outlet	1
Δ	205 0692 000	2P wrapping terminal	1

Ref. No.	Part No.	Part Name	Remarks
SEMICONDUCTORS GROUP			
IC201	263 0322 004	IC BA4558	Linear ope. amp
IC202	263 0609 002	IC NJM2068DDC	
IC401,402	263 0930 001	IC μ PC5023CS-064	Bias IC
IC403,404	262 0874 009	IC TLP521-1(BL)	
IC701	268 0073 905	IC ICP-N15	IC protector
TR301-304	271 0094 919	Transistor 2SA970(BL)	
TR305,306	271 0131 924	Transistor 2SA988(E/F)	
TR307-312	273 0235 923	Transistor 2SC1841(E/F)	
TR313,314	273 0303 910	Transistor 2SC1740S(S)	
TR323	271 0131 924	Transistor 2SA988(E/F)	
TR401,402	271 0280 901	Transistor 2SA1038S(S/E)	
TR403,404	273 0281 906	Transistor 2SC2705(O)/(Y)	
TR405,406	273 0432 904	Transistor 2SC2389S(S/E)	
TR407,408	271 0168 900	Transistor 2SA1145(O)/(Y)	
TR601,602	273 0235 923	Transistor 2SC1841(E/F)	
TR603-605	273 0303 910	Transistor 2SC1740S(S)	
TR606	271 0192 905	Transistor 2SA933S(S)	
TR607	273 0235 923	Transistor 2SC1841(E/F)	
TR608	271 0094 935	Transistor 2SA970(BL/GR)	
TR609	272 0107 906	Transistor 2SB1328(P)	
TR610	273 0235 923	Transistor 2SC1841(E/F)	
TR611	273 0235 923	Transistor 2SC1841(E/F)	Europe model only
R612	273 0235 923	Transistor 2SC1841(E/F)	
TR615	273 0303 910	Transistor 2SC1740S(S)	
TR616	272 0107 906	Transistor 2SB1328(P)	
TR701	274 0168 006	Transistor 2SD2395(E/F)	
TR702	272 0129 007	Transistor 2SB1566(E/F)	
TR703	271 0280 901	Transistor 2SA1038S(S/E)	
TR704,705	273 0432 904	Transistor 2SC2389S(S/E)	
TR706	273 0303 910	Transistor 2SC1740S(S)	
TR801-806	273 0235 923	Transistor 2SC1841(E/F)	
D101-106	276 0616 907	Diode 1SS252	
D301-306	276 0616 907	Diode 1SS252	
D351,352	276 0616 907	Diode 1SS252	
D401-414	276 0616 907	Diode 1SS252	
D601,602	276 0616 907	Diode 1SS252	
D701	276 0553 905	Diode 1SR35-200A	

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
△D702	276 0336 007	Diode S4VB20F	Bridge	CAPACITORS GROUP			
D703,704	276 0553 905	Diode 1SR35-200A		C111,112	253 4444 907	Ceramic cap. 220pF/50V	CC45SL1H221J
ZD401-404	276 0643 954	Zener diode MTZJ3.9A	3.9 V	C207,208	254 4260 980	Electrolytic 10μF/50V	CE04W1H100M
ZD601	276 0644 911	Zener diode MTZJ7.5A	7.5 V	C209,210	253 4537 982	Ceramic cap. 56pF/50V	CC45SL1H560J
ZD701,702	276 0645 978	Zener diode MTZJ36A	36 V	C213,214	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
ZD703	276 0644 911	Zener diode MTZJ7.5A	7.5 V	C215,216	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M
ZD705,706	276 0645 907	Zener diode MTZJ18A	18 V	C217,218	255 1265 994	Film cap. 0.033μF/50V	CQ93M1H333J(B)
SC601	279 0016 904	Thyristor SF0R1A42		C219,220	254 4260 919	Electrolytic 0.22μF/50V	CE04W1HR22M
RESISTORS GROUP				C221,222	254 4260 906	Electrolytic 0.1μF/50V	CE04W1H0R1M
VR202	211 0798 103	Variable resistor 100kohm	Balance	C223,224	254 4260 935	Electrolytic 0.47μF/50V	CE04W1HR47M
VR203	211 0834 012	Variable resistor 10kohm	Treble	C225,226	254 4260 922	Electrolytic 0.33μF/50V	CE04W1HR33M
VR204	211 0834 009	Variable resistor 30kohm	Bass	C227,228	256 1034 953	Metalized 0.068μF/50V	CF93A1H683J
△R115,116	244 2051 974	Metal oxide 1kohm 1W	RS14B3A102JNBS(S)	C229,230	255 1265 994	Film cap. 0.033μF/50V	CQ93M1H333J(B)
△R162,163	244 2051 974	Metal oxide 1kohm 1W	RS14B3A102JNBS(S)	C250,251	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M
△R309-312	241 2380 963	Carbon film 2.2kohm 1/4W	RD14B2E222JNBS	C252,253	255 4237 929	Film cap. 56pF/100V	CQ93P2A560J(NH)
△R317,318	241 2377 963	Carbon film 120ohm 1/4W	RD14B2E121JNBS	C256,257	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M
△R319-322	241 2377 976	Carbon film 130ohm 1/4W	RD14B2E131JNBS	C258,259	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
△R323,324	241 2315 987	Fusible resistor 68ohm 1/4W	RD14B2E680GFRS	C261	253 1181 917	Ceramic cap. 0.022μF/50V	CK45F1H223Z
△R325,326	241 2380 950	Carbon film 2kohm 1/4W	RD14B2E202JNBS	C262,263	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)
△R327,328	241 2379 929	Carbon film 560ohm 1/4W	RD14B2E561JNBS	C301,302	254 4254 941	Electrolytic 100μF/16V	CE04W1C101M
△R333-336	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3A22JNBS(S)	C303,304	255 4235 918	Film cap. 100pF/100V	CQ93P2A101J(NH)
△R345-348	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3A22JNBS(S)	C305,306	255 6177 980	Film cap. 220pF/50V	CQ09S1H221J(STM)
△R351	241 2379 987	Carbon film 1kohm 1/4W	RD14B2E102JNBS	C307,308	255 1264 908	Film cap. 1000pF/50V	CQ93M1H102J(B)
△R401,402	241 2379 916	Carbon film 510ohm 1/4W	RD14B2E511JNBS	C309,310	254 4252 082	Electrolytic 2200μF/10V	CE04W1A222M
△R403,404	241 2378 946	Carbon film 270ohm 1/4W	RD14B2E271JNBS	C311,312	255 4237 929	Film cap. 56pF/100V	CQ93P2A56J(NH)
△R409,410	241 2379 916	Carbon film 510ohm 1/4W	RD14B2E511JNBS	C317,318	253 4470 900	Ceramic cap. 10pF/500V	CC45SL2H100D
△R413,414	241 2378 946	Carbon film 270ohm 1/4W	RD14B2E271JNBS	C319-322	254 4261 921	Electrolytic 100μF/50V	CE04W1H101M
△R441-444	241 2379 987	Carbon film 1kohm 1/4W	RD14B2E102JNBS	C329-332	254 4262 904	Electrolytic 4.7μF/63V	CE04W1J4R7M
△R601-604	241 2380 950	Carbon film 2kohm 1/4W	RD14B2E202JNBS	C339	254 4262 755	Electrolytic 100μF/63V	CE04W1J101MC
△R631-633	244 2051 990	Metal oxide 4.7kohm 1W	RS14B3A472JNBS(S)	C371,372	255 6178 947	Film cap. 680pF/50V	CQ09S1H68J(STM)
△R634,635	244 2052 957	Metal oxide 5.6kohm 1W	RS14B3A562JNBS(S)	C401,402	254 4261 918	Electrolytic 47μF/50V	CE04W1H471M
△R681	244 2052 957	Metal oxide 5.6kohm 1W	RS14B3A562JNBS(S)	C403,404	254 3056 959	Electrolytic 10μF/50V	CE04D1H100MBP (Bipole)
△R711,712	244 2043 908	Metal oxide 680ohm 1W	RS14B3A681JNBS(S)	C405,406	254 4260 993	Electrolytic 22μF/50V	CE04W1H221M
△R713	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNBS	C407,408	255 1264 908	Film cap. 1000pF/50V	CQ93M1H103J(B)
△R716	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNBS	C409,410	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
△R717,718	244 2043 908	Metal oxide 680ohm 1W	RS14B3A681JNBS(S)	C411,412	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)
				C413-416	256 1034 979	Metalized 0.1μF/50V	CF93A1H104J
				C451,452	253 1179 987	Ceramic cap. 470pF/50V	CK45B1H471J
				C601,602	255 1265 936	Film cap. 0.01μF/50V	CQ93M1H103J(B)
				C603	254 4250 945	Electrolytic 330μF/6.3V	CE04W0J331J
				C604	254 4252 930	Electrolytic 100μF/10V	CE04W1A101M
				C605	254 4252 901	Electrolytic 22μF/10V	CE04W1A220J
				C606	255 1265 978	Film cap. 0.022μF/50V	CQ93M1H223J(B)
				C701,702	254 4260 948	Electrolytic 1μF/50V	CE04W1H010M
				C703,704	254 4261 921	Electrolytic 100μF/50V	CE04W1H101M

1U-2940 VOLUME UNIT ASS'Y

1U-2940A : Europe model

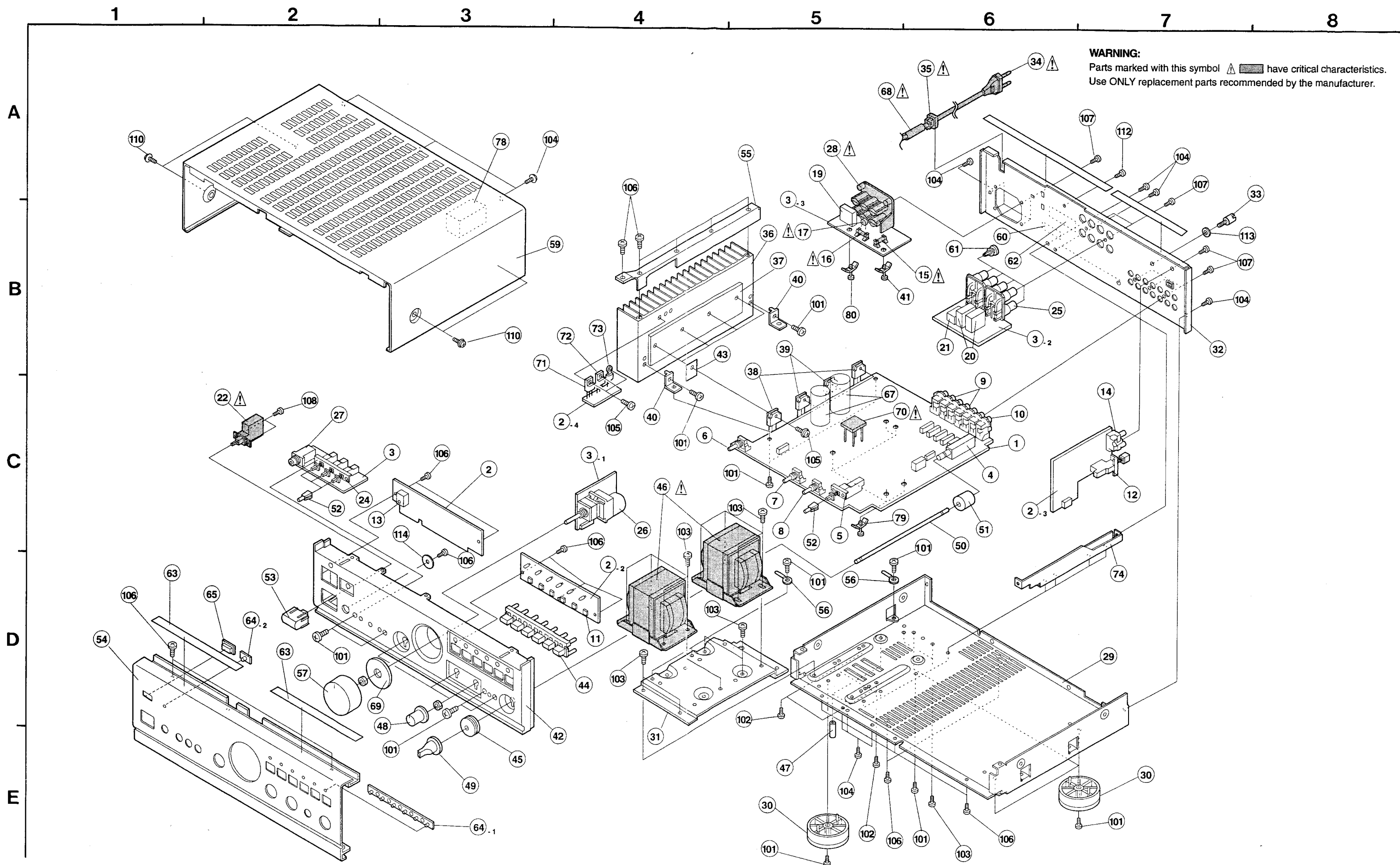
1U-2940B : U.K. model

1U-2939A μ -COM UNIT ASS'Y (PMA-725R)

Ref. No.	Part No.	Part Name	Remarks	Q'ty
C705,706	254 6205 008	Electrolytic 10000 μ F/51V	CE68W==103MC(DL)	
C707	256 1042 903	Metalized 0.1 μ F/250V	CF93A2E104K	
C708	254 4263 916	Electrolytic 0.22 μ F/100V	CE04W2AR22M	
OTHERS PARTS GROUP				(1)
SW101	212 0336 005	Rotary switch	Rec out sel.	1
SW202	212 1161 004	1P push switch	Surce direct	1
RL101~106	214 0178 007	Relay(MR62-12USRY)		6
	204 8266 008	4P pin jack(S-GND)	for TAPE	2
	204 8278 009	6P pin jack(S-GND)	for INPUTS	1
SEMICONDUCTORS GROUP				
IC105	499 0150 008	IC SBX1610-52	Remote sensor	
IC702	263 0793 002	IC NJM7806FA(S)	Regulator +6V	
IC801	262 1579 303	IC HD404304A13P	μ -com	
IC802	263 0476 002	IC LB1639	Motor driver	
IC803	263 0535 008	IC M51954AL	Reset IC	
IC901	263 0322 004	IC BA4558		
TR707	274 0168 006	Transistor 2SD2395(E/F)		
TR807	271 0192 905	Transistor 2SA933S(S)		
TR808,809	273 0303 910	Transistor 2SC1740S(S)		
TR810	269 0046 906	Transistor DTA114ES	Built in resistor	
TR901~904	275 0038 045	Transistor 2SK369(BL)/(GR)-C	N type FET Δ VGS	
D801~805	276 0616 907	Diode 1SS252		
D806	276 0553 905	Diode 1SR35-200A		
D807,808	276 0616 907	Diode 1SS252		
D901,902	276 0616 907	Diode 1SS252		
ZD704	276 0644 995	Zener diode MTZJ16A	16 V	
LD801	393 9559 904	LED SLR-56DUTB7	Orange	
LD802~807	393 9515 906	LED SLR-56VR70	Red	
PH701	279 0034 041	Posistor PTH9M04BD222TS2F333		
RESISTORS GROUP				
Δ R832	241 2387 940	Carbon film 4.7ohm 1/4W	RD14B2E4R7JNBS	
Δ R936,937	241 2377 905	Carbon film 68ohm 1/4W	RD14B2E680JNBS	
CAPACITORS GROUP				
C709	254 4263 916	Electrolytic 0.22 μ F/100V	CE04W2AR22M	
C711	253 1181 904	Ceramic cap. 0.01 μ F/50V	CK45F1H103Z	
C712,713	254 4260 980	Electrolytic 10 μ F/50V	CE04W1H100M	
C714,715	253 1181 904	Ceramic cap. 0.01 μ F/50V	CK45F1H103Z	
C801	254 4213 937	Electrolytic 100 μ F/6.3V	CE04W0J101M(SRA)	
C802	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H223Z	
C803	254 4213 937	Electrolytic 100 μ F/6.3V	CE04W0J101M(SRA)	
C805	254 4213 937	Electrolytic 100 μ F/6.3V	CE04W0J101M(SRA)	
C806	254 6190 906	Electrolytic 330 μ F/6.3V	CE04W0J331M(SRA)	
C807	259 0007 003	Back up cap. 8200 μ F/5.5V	SB CAP==822=	
C808	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H223Z	

Ref. No.	Part No.	Part Name	Remarks	Q'ty
C809	254 4196 973	Electrolytic 4.7 μ F/50V	CE04W1H4R7M(SRA)	
C810	254 4196 944	Electrolytic 1 μ F/50V	CE04W1H010M(SRA)	
C811	254 4196 928	Electrolytic 0.33 μ F/50V	CE04W1HR33M(SRA)	
C812	256 1034 982	Metalized 0.12 μ F/50V	CF93A1H124J	
C901	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M	
C902	253 1181 917	Ceramic cap. 0.022 μ F/50V	CK45F1H223Z	
C905,906	253 1179 929	Ceramic cap. 150pF/50V	CK45B1H151K	
C907,908	253 1179 961	Ceramic cap. 330pF/50V	CK45B1H331K	
C909,910	253 1179 903	Ceramic cap. 100pF/50V	CK45B1H101K	
C911,912	254 4260 948	Electrolytic 1 μ F/50V	CE04W1H010M	
C913,914	255 1251 937	Film cap. 3300pF/50V	CQ92M1H332J(MRZ)	
C915,916	254 4252 930	Electrolytic 100 μ F/10V	CE04W1A101M	
C917,918	256 1034 953	Metalized 0.068 μ F/50V	CF93A1H683J	
C919,920	254 4254 909	Electrolytic 10 μ F/16V	CE04W1C100M	
C921,922	255 4223 959	Film cap. 0.018 μ F/50V	CQ92M1H183J(MRZ)	
C923,924	255 1264 911	Film cap. 1200pF/50V	CQ93M1H122J(B)	
C925,926	253 1179 961	Ceramic cap. 330pF/50V	CK45B1H331K	
C935	254 4252 930	Electrolytic 100 μ F/10V	CE04W1A101M	
C936,937	254 4256 936	Electrolytic 47 μ F/25V	CE04W1E470M	
OTHERS PARTS GROUP				(1)
L901,902	235 9003 002	Inductor (150 μ H)	FTZ choke coil	2
XL801	399 9018 003	Resonator	CST4.00 MGW	1
SW801~806	212 4789 001	Tact switch		6
SW901	212 1099 008	1P push switch	MM/MC	1
	204 8413 000	2P pin jack(C-GND)	PHONO	1
	415 0309 013	P.V.C.tube L=10	for PH701	2
SEMICONDUCTORS GROUP				
TR617,618	273 0235 923	Transistor 2SC1841(E/F)		
D001	276 0616 907	Diode 1SS252	Europe model only	
D441~444	276 0616 907	Diode 1SS252		
D610~612	276 0616 907	Diode 1SS252		
RESISTORS GROUP(Not included carbon film \pm 5%,1/4W)				
VR201	211 0869 003	Variable resistor 30kohm	Main volume	
Δ R341,342	244 2043 982	Metal oxide 0.22ohm 1W	RS14B3A22JNBS(S)	
Δ R501,502	244 2043 937	Metal oxide 10ohm 1W	RS14B3A100JNBS(S)	
Δ R505~508	244 2050 933	Metal oxide 180ohm 1W	RS14B3A181JNBS(S)	
Δ R652	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F22JNB	
Δ R653	244 2043 940	Metal oxide 2.2kohm 1W	RS14B3A22JNBS(S)	
Δ R654	244 2052 915	Metal oxide 1.8kohm 1W	RS14B3A182JNBS(S)	
Δ R655	244 2043 940	Metal oxide 2.2kohm 1W	RS14B3A22JNBS(S)	
Δ R656	244 2052 915	Metal oxide 1.8kohm 1W	RS14B3A182JNBS(S)	
Δ R660	244 0157 003	Metal oxide 2.2kohm 3W	RS14B3F22JNB	
CAPACITORS GROUP				
Δ C002	253 8003 713	Ceramic cap. 4700pF/400V AC	CK45E2GAC472MC	
C203,204	254 4254 909	Electrolytic 10 μ F/16V	CE04W1C100M	
C205	255 1265 936	Film cap. 0.01 μ F/50V	CQ93M1H103J(B)	
C501,502	256 1034 979	Metalized 0.1 μ F/50V	CF93A1H104J	
OTHERS PARTS GROUP				(1)
L301,302	235 0104 007	Inductor(1mH)		2
	202 0022 008	Fuse holder	Europe model	4
	202 0022 008	Fuse holder	U.K. model	2
Δ F001	206 1015 061	Fuse(2A)		1
Δ F002	206 1015 029	Fuse(1A T)	Europe model only	1
Δ	415 0299 000	Capacitor cover	for C002	1
Δ RL001	214 0142 004	Relay(TV-5)	Europe model only	1
RL601,602	214 0129 001	Relay(DH2TU)	for SP-AE	2
RL603	214 0178 007	Relay(MR62-12USRY)	for Headphone	1
SW501	212 1162 003	3P push switch	for Speaker ON-OFF	1
	205 0484 001	8P speaker terminal	for Speaker	1
	204 8503 004	Head phone jack	JA501	1
Δ	203 3950 002	3P AC outlet	AOL-1	1
Δ	205 0692 000	2P wrapping terminal	Europe model only	1

EXPLODED VIEW OF CHASSIS AND CABINET : PMA-925R



PARTS LIST OF EXPLODED VIEW PMA-925R

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	1U-2938 C	Main unit Ass'y		1s	47	462 0094 007	Screw tube		2
2	1U-2939 A	M-com unit Ass'y		1s	48	112 0646 000	:*Knob(S)	Black model	3
2-1	—	M-com unit		(1)	48	112 0646 013	:*Knob(S)	Gold model	3
2-2	—	LED unit		(1)	49	112 0641 102	:*Fuji knob	Black model	1
2-3	—	Phono unit		(1)	49	112 0641 115	:*Fuji knob	Gold model	1
2-4	—	Supply unit		(1)	50	112 0784 001	Volume knob joint		1
3	1U-2940 C	Volume unit Ass'y		1s	51	112 0785 000	Volume knob joint (B)		1
3-1	—	Volume unit		(1)	52	113 1745 107	:*Push button(Round)	Black model	4
3-2	—	Speaker unit		(1)	52	113 1745 110	:*Push button(Round)	Gold model	4
3-3	—	AC outlet unit		(1)	53	113 1738 101	:*Power button	Black model	1
3-4	—	Speaker sel. unit		(1)	53	113 1738 114	:*Power button	Gold model	1
4	212 0336 005	Rotary switch	SW101 Rec out sel.	1	54	144 2509 207	Front panel	Black model	1
5	212 1161 004	1P push switch	SW202 S.Direct	1	54	144 2509 210	Front panel	Gold model	1
6	211 0798 103	Variable resistor 100kohm	VR202 Balance	1	55	412 4136 005	Radiator bracket		1
7	211 0834 009	Variable resistor 30kohm	VR204 Bass	1	56	445 0048 003	Cord holder L=76		3
8	211 0834 012	Variable resistor 10kohm	VR203 Treble	1	57	112 0789 006	Volume knob Ass'y	Black model	1
9	204 8266 008	4P pin jack(S-GND)	for TAPE	2	57	112 0789 019	Volume knob Ass'y	Gold model	1
10	204 8278 009	6P pin jack(S-GND)	for INPUTS	1	58	445 8004 007	Wire clasper		18
11	212 4789 001	Tact switch	SW801-806	6	59	102 0521 128	::Top cover	Black model	1
12	212 1099 008	1P push switch	SW901 MM/MC	1	59	102 0521 131	::Top cover	Gold model	1
13	499 0150 008	Remote sensor SBX1610-52	IC105	1	60	513 2444 005	Label (China)	Put on rear panel	1
14	204 8413 000	2P pin jack(C-GND)	for PHONO	1	61	477 0096 007	Push rivet		8
15	206 1015 032	Fuse (2.5A)	F001	1	62	513 2433 003	Serial No. sheet		1
16	206 1015 029	Fuse (1A T)	F002	1	63	122 0219 007	Sheet	F/Panel, R/Panel	4
17	415 0299 000	Capacitor cover	for C002	1	64	143 0945 006	:*Lens		1
18	—	—	—	—	64-1	—	:*Lens		(1)
19	214 0142 004	Relay(TV-5)	RL001	1	64-2	—	:*Lens		(1)
20	214 0129 001	Relay(DH2TU)	RL601,602	2	65	143 9181 007	:*Remocon window		1
21	214 0178 007	Relay(MR62-12USRY)	RL101-106,603	7	66	254 4252 082	Electrolytic cap. 2200μF/10V	C309,310	2
22	212 1030 009	Power switch(TV-5)	SW001	1	67	254 6206 007	Electrolytic cap. 12000μF/63V	C705,706	2
23	—	—	—	—	68	415 0305 017	P.V.C. tube	for AC cord	1
24	212 1162 003	3P push switch	SW501 Speaker ON-OFF	1	69	412 4135 006	Volume plate	Black model	1
25	205 0484 001	8P speaker terminal	for speaker	1	69	412 4135 019	Volume plate	Gold model	1
26	211 0869 003	Variable resistor 30kohm	VR201 Main volume	1	70	276 0424 005	Diode 4D4B42	D-702 Bridge	1
27	204 8503 004	:Head phone jack	JA501	1	71	272 0129 007	Transistor 2SB1566(E/F)	TR702	1
28	203 3950 002	3P AC outlet	AOL-1	1	72	263 0793 002	IC NJM7806FA(S)	IC702 Regulator +6V	1
29	411 1267 712	*Main chassis		1	73	279 0034 041	PTH94M04BD222TS2F333	PH701	1
30	104 0282 007	:*Foot Ass'y		4	74	412 4156 001	Trans frame		1
31	441 1786 016	Trans bracket		1	75	—	—		—
32	105 1203 004	Rear panel		1	76	—	—		—
33	205 0071 016	Terminal Ass'y		1	77	146 1651 000	Side spacer		2
34	206 2063 009	AC cord with plug		1	78	461 0940 006	:Rubber form		1
35	445 0056 008	Cord bush		1	79	449 0138 025	Card spacer (L=31)		5
36	417 0503 132	Power radiator		1	80	449 0138 012	Card spacer (L=25)		1
37	417 0507 015	:*CU plate		1	81	—	—		—
38	273 0389 002	Transistor 2SC3855(O/P/Y)(Z)	TR319,320	2					
39	271 0240 006	Transistor 2SA1491(O/P/Y)(Z)	TR321,322	2					
40	412 4000 005	:*P.W.B.bracket (A)		2					
41	449 0138 009	:Card spacer (L=12)		1					
42	146 1637 008	Inner panel	Black model	1					
42	146 1637 011	Inner panel	Gold model	1					
43	—	Mica sheet		4					
44	113 1739 003	:*Function button	Black model	1					
44	113 1739 016	:*Function button	Gold model	1					
45	—	—		—					
46	233 6207 009	Power transformer		2					

PACKING & ACCESSORIES

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
SCREWS & WASHERS					151	GEN 3580	Envelope Sub. Ass'y		1s
101	473 7002 018	Screw 3x8	CBTS(S)-Z	17	151-1	505 8006 019	Envelope		(1)
102	473 7004 016	Screw 4x6	CBTS(S)-Z	8	151-2	511 2899 007	Operating instructions		(1)
103	473 7004 029	Screw 4x10	CBTS(S)-Z	14	151-3	399 0277 004	Remote control unit	RC-176	(1)
104	473 7015 018	Screw 3x8	CBTS(S)-B	11	151-4	—	Batteries	R6P/AA/SUM-3	(2)
105	473 8007 009	Cup screw 3x12		7	151-5	515 0671 326	DENON service network		(1)
106	473 7508 017	Screw 3x10	CBTS(P)-B	18	152	505 8092 010	Laminate envelope		1
107	477 0064 107	Fixing screw 3x10		10	153	503 1222 001	Cushion		2
108	473 7508 004	Screw 3x6	CBTS(P)-B	2	154	502 0892 002	:Support pad		2
109	473 7500 044	Screw 3x8	CBTS(P)-B	2	155	502 1227 006	:Sub cushion		1
110	477 0263 005	3P swelling screw	Black model	4	156	501 1927 009	Carton case		1
110	477 0263 018	3P swelling screw	Gold model	4	157	513 2446 003	China label(E)		1
111	—	—		—	158	513 2447 002	China label(F)		1
112	473 7002 034	Screw 3x6	CBTS(S)-B	1	159	513 9111 001	Color label (Gold)	Gold model only	2
113	477 0018 001	Washer	P-87	1					
114	475 1175 002	:Washer		1					
115	—	—		—					

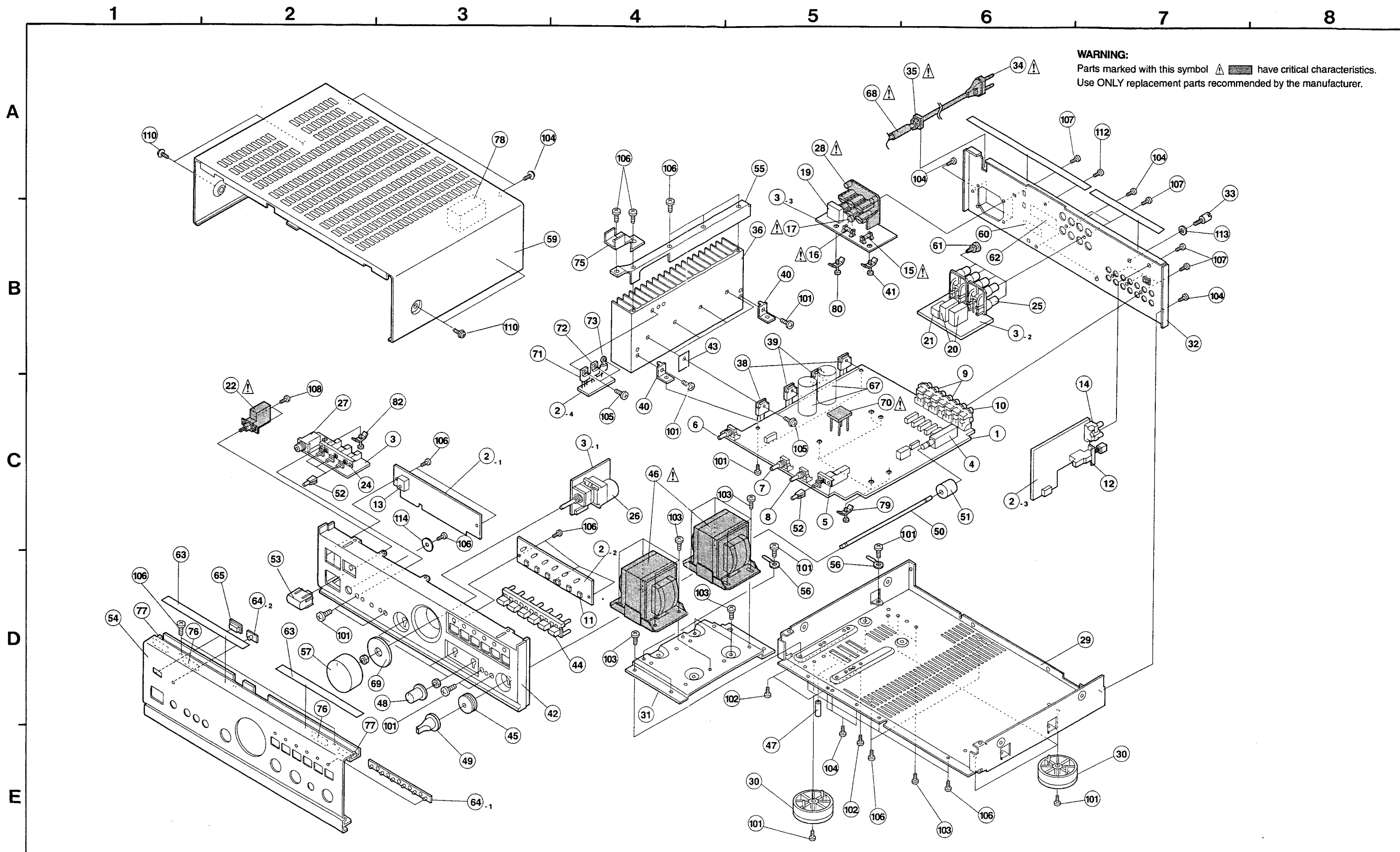
NOTE FOR PARTS LIST

- Part indicated with the mark "●" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "1" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.

WARNING:

Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

EXPLODED VIEW OF CHASSIS AND CABINET : PMA-725R



PARTS LIST OF EXPLODED VIEW PMA-725R

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
1	1U-2938 A	Main unit Ass'y	Europe model	1s	40	412 4000 005	*P.W.B.bracket (A)		2
1	1U-2938 B	Main unit Ass'y	U.K. model	1s	41	—	—		
2	1U-2939 A	M-com unit Ass'y		1s	42	146 1632 003	Inner panel	Black model	1
2-1	—	M-com unit		(1)	42	146 1632 016	Inner panel	Gold model	1
2-2	—	LED unit		(1)	43	—	Mica sheet		4
2-3	—	Phono unit		(1)	44	113 1739 003	*Function button	Black model	1
2-4	—	Supply unit		(1)	44	113 1739 016	*Function button	Gold model	1
3	1U-2940 A	Volume unit Ass'y	Europe model	1s	45	124 0032 057	Felt sheet		1
3	1U-2940 B	Volume unit Ass'y	U.K. model	1s	46	233 6203 003	Power transformer		2
3-1	—	Volume unit		(1)	47	462 0094 007	Screw tube		2
3-2	—	Speaker unit		(1)	48	112 0646 000	*Knob(S)	Black model	3
3-3	—	AC outlet unit	Europe model only	(1)	48	112 0646 013	*Knob(S)	Gold model	3
3-4	—	Speaker sel. unit		(1)	49	112 0641 102	*Fuji knob	Black model	1
3-5	—	Power switch unit	U.K. model only	(1)	49	112 0641 115	*Fuji knob	Gold model	1
3-6	—	AC unit	U.K. model only	(1)	50	112 0784 001	Volume knob joint		1
4	212 0336 005	Rotary switch	SW101 Rec out sel.	1	51	112 0785 000	Volume knob joint (B)		1
5	212 1161 004	1P push switch	SW202 S.Direct	1	52	113 1745 107	*Push button(Round)	Black model	4
6	211 0798 103	Variable resistor 100kohm	VR202 Balance	1	52	113 1745 110	*Push button(Round)	Gold model	4
7	211 0834 009	Variable resistor 30kohm	VR204 Bass	1	53	113 1738 101	*Power button	Black model	1
8	211 0834 012	Variable resistor 10kohm	VR203 Treble	1	53	113 1738 114	*Power button	Gold model	1
9	204 8266 008	4P pin jack(S-GND)	for TAPE	2	54	144 2507 306	Front panel	Black model	1
10	204 8278 009	6P pin jack(S-GND)	for INPUTS	1	54	144 2507 319	Front panel	Gold model	1
11	212 4789 001	Tact switch	SW801-806	6	55	412 4128 000	Radiator bracket		1
12	212 1099 008	1P push switch	SW901 MM/MC	1	56	445 0048 003	Cord holder L=76		3
13	499 0150 008	Remote sensor SBX1610-52	IC105	1	57	112 0744 009	Volume knob Ass'y	Black model	1
14	204 8413 000	2P pin jack(C-GND)	for PHONO	1	57	112 0744 012	Volume knob Ass'y	Gold model	1
15	206 1015 061	Fuse (2 A)	F001	1	58	445 8004 007	Wire clasper		18
16	206 1015 029	Fuse (1 A T)	F002	1	59	102 0543 119	::Top cover	Black model	1
17	415 0299 000	Capacitor cover	Europe model only	1	59	102 0543 122	::Top cover	Gold model	1
18	—	—	for C002	1	60	513 2444 005	Label (China)	Puton rear panel	1
19	214 0142 004	Relay(TV-5)	RL001	1	61	477 0096 007	Push rivet		8
20	214 0129 001	Relay(DH2TU)	Europe model only	1	62	513 2433 003	Serial No. sheet		1
21	214 0178 007	Relay(MR62-12USRY)	RL601,602	2	63	122 0219 007	Sheet	F/Panel,R/Panel	4
22	212 1030 009	Power switch(TV-5)	RL101-106,603	7	64	143 0945 006	*Lens		1
23	—	—	SW001	1	64-1	—	*Lens		(1)
24	212 1162 003	3P push switch	SW501 Speaker	1	64-2	—	*Lens		(1)
25	205 0484 001	8P speaker terminal	ON-OFF	1	65	143 9181 007	*Remocon window		1
26	211 0869 003	Variable resistor 30kohm	for speaker	1	66	254 4252 082	Electrolytic cap. 2200μF/10V	C309,310	2
27	204 8503 004	Head phone jack	VR201 Main volume	1	67	254 6205 008	Electrolytic cap. 10000μF/51V	C705,706	2
28	203 3950 002	3P AC outlet	JA501	1	68	415 0305 017	P.V.C. tube	for AC cord	1
29	411 1267 712	*Main chassis	AOL-1	1	69	412 4135 006	Volume plate	Black model	1
30	104 0282 007	*Foot Ass'y	Europe model only	1	70	412 4135 019	Volume plate	Gold model	1
31	441 1786 003	Trans bracket		1	71	276 0338 007	Diode S4VB20F	D702 Bridge	1
32	105 1198 009	Rear panel		1	72	272 0129 007	Transistor 2SB1566 (E/F)	TR702	1
32	105 1198 012	Rear panel	U.K. model	1	73	263 0793 002	IC NJM7806FA (S)	IC702 Regulator+6V	1
33	205 0071 016	Terminal Ass'y		1	74	279 0034 041	PTH9M04BD222TS2F333	PH701	1
34	206 2063 009	AC cord with plug		1	75	—	—		1
34	206 2131 009	AC cord with plug	Europe model	1	76	412 4159 008	:Support bracket		1
35	445 0056 008	Cord bush	U.K. model	1	77	461 0942 004	Spacer (T=1)		2
36	417 0503 129	Power radiator		1	78	146 1648 000	Side spacer		2
37	—	—		1	79	461 0941 005	:Rubber form		1
38	274 0173 004	Transistor 2SD2390(O/P/Y)		2	80	449 0138 012	:Card spacer (L=25)		5
39	272 0137 002	Transistor 2SB1560(O/P/Y)	TR319,320	2	81	449 0138 012	:Card spacer (L=25)		1
			TR321,322	2	82	449 0138 025	:Card spacer (L=31)		1
					83	513 2001 008	Insulate mark sheet	U.K. model only	1
					84	202 0013 101	Fuse holder	U.K. model only	1

PACKING & ACCESSORIES

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
85	415 0785 006	Insulating plate	U.K. model only	1	151	GEN 3580	Envelope Sub. Ass'y		1s
86	513 1390 008	Fuse label	U.K. model only	1	151-1	505 8006 019	Envelope		(1)
87	203 0150 009	Wire connector	U.K. model only	2	151-2	511 2899 007	Operating instructions		(1)
88	415 0360 052	P.V.C. Tubing (19)	U.K. model only	1	151-3	399 0277 004	Remote control unit	RC-176	(1)
SCREWS & WASHERS					151-4	—	Batteries	R6P/AA/SUM-3	(2)
101	473 7002 018	Screw 3x8	CBTS(S)-Z	15	151-5	515 0671 326	DENON service network		(1)
102	473 7004 016	Screw 4x6	CBTS(S)-Z	8	152	505 8092 010	Laminate envelope		1
103	473 7004 029	Screw 4x10	CBTS(S)-Z	14	153	503 1218 002	Cushion		2
104	473 7015 018	Screw 3x8	CBTS(S)-B	10	154	502 0893 001	:L supporter		2
105	473 8007 009	Cup screw 3x12		7	155	502 0894 000	:Pad (T=10)		1
106	473 7508 017	Screw 3x10	CBTS(P)-B	18	156	501 1922 004	Carton case		1
107	477 0064 107	Fixing screw 3x10	Europe model	10	157	513 2446 003	China label(E)		1
107	477 0064 107	Fixing screw 3x10	U.K. model	6	158	513 2447 002	China label(F)		1
108	473 7508 004	Screw 3x6	CBTS(P)-B	2	159	513 9111 001	Color label (Gold)	Gold model only	2
109	—	—			160	504 0176 009	AC protect sheet	U.K. model only	1
110	477 0263 005	3P swelling screw	Black model	4	161	503 1228 008	Support pad	U.K. model only	1
110	477 0263 018	3P swelling screw	Gold model	4					
111	—	—							
112	473 7002 034	Screw 3x6	CBTS(S)-B	1					
113	477 0018 001	Washer	P-87	1					
114	475 1175 002	:Washer		1					
115	471 3304 031	Screw 3x8	CBS U.K. model only	1					
116	475 6006 008	Nut M3	U.K. model only	1					

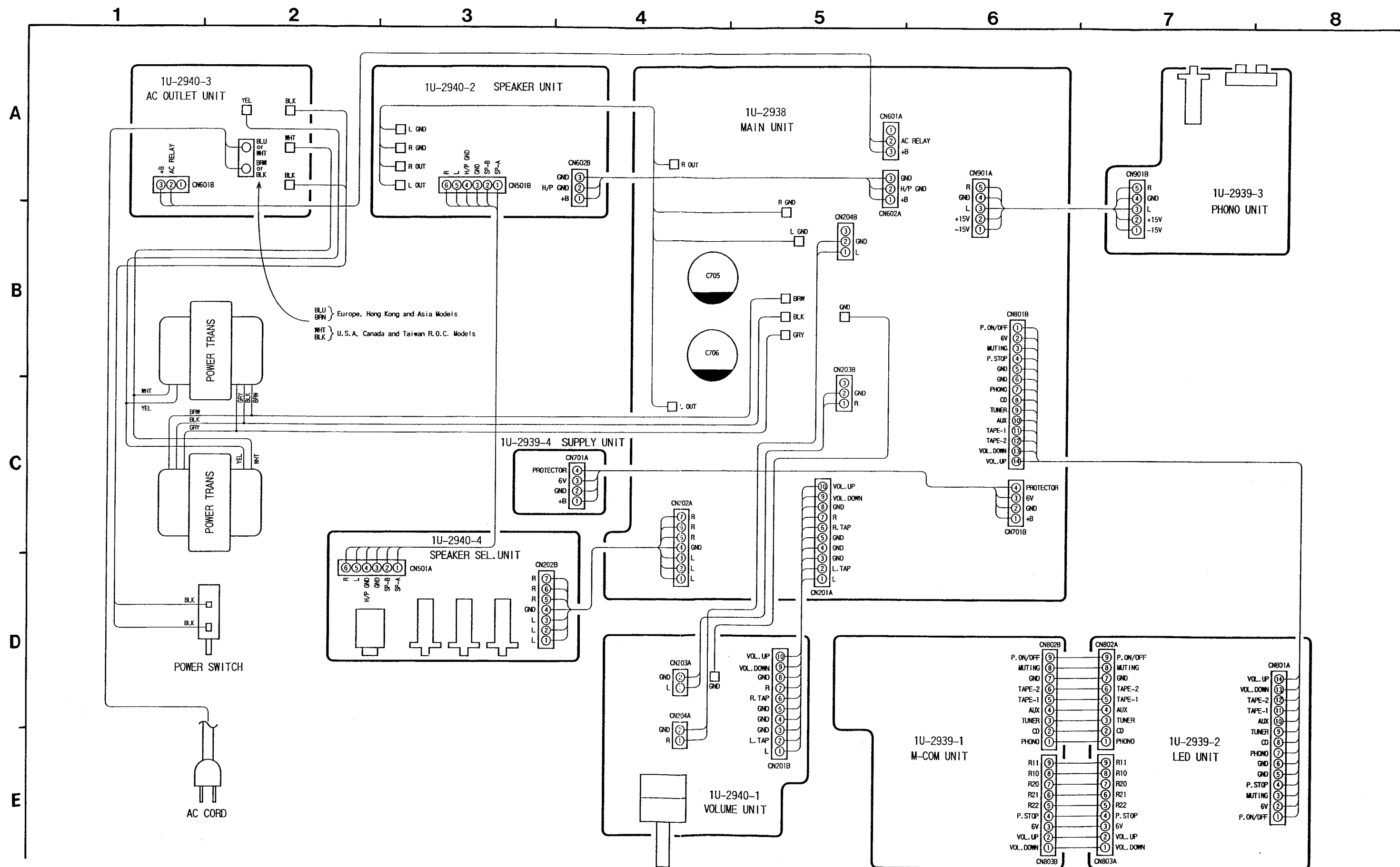
NOTE FOR PARTS LIST

- Part indicated with the mark "●" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.

WARNING:

Parts marked with this symbol  have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.

WIRING DIAGRAM



SCHEMATIC DIAGRAM (1/4) : PMA-925R

1

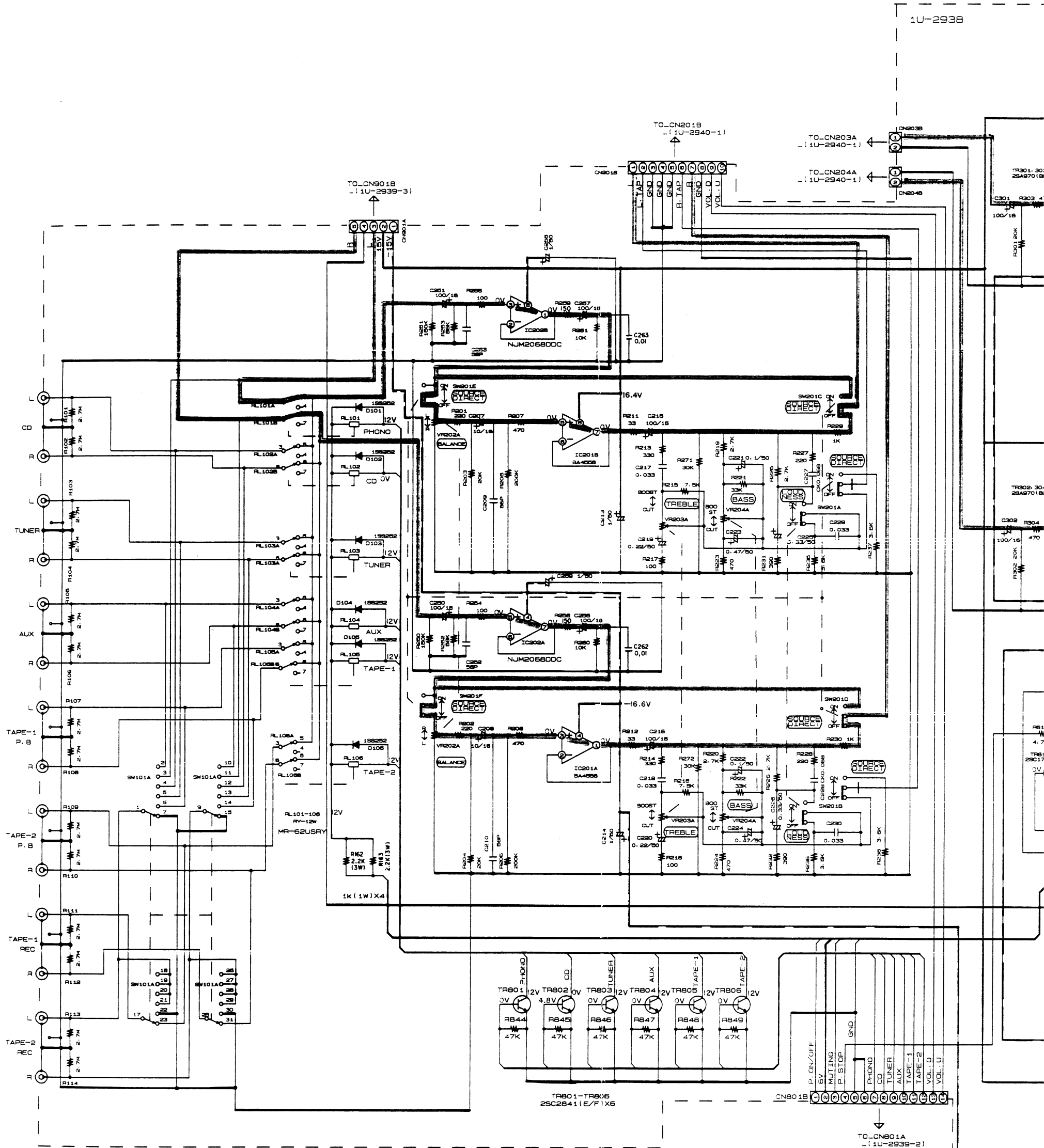
2

3

4

5

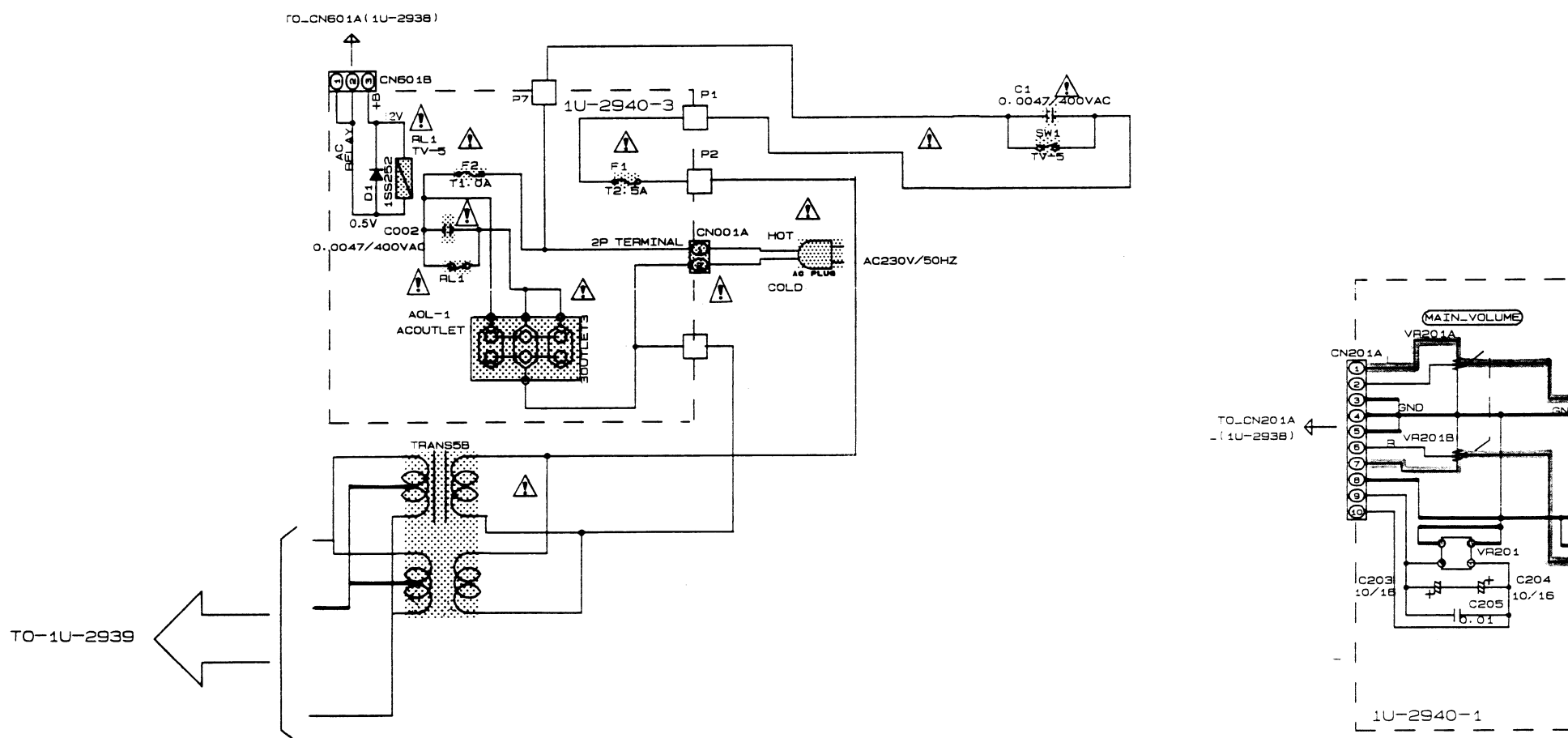
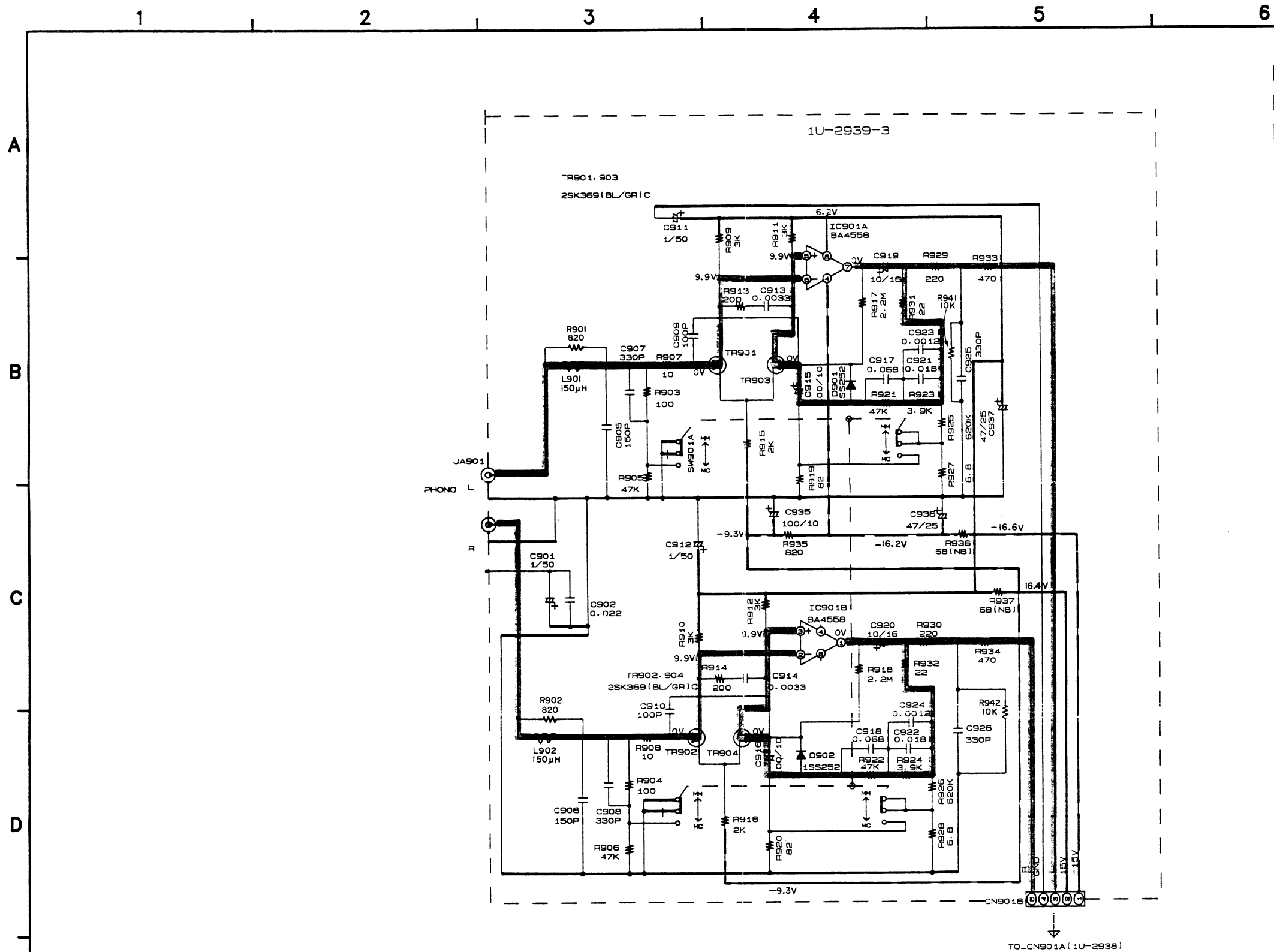
6





WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

SCHEMATIC DIAGRAM (2/4) : PMA-925R



NOTES



NOTES
ALL RESISTANCE VALUES IN OHM. K=1,000 OHM,
M=1,000,000 OHM

ALL CAPACITANCE VALUES IN MICRO FARAD.
P=MICRO-MICRO FARAD

EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.

CIRCUIT AND PARTS ARE SUBJECT TO CHANGE
WITHOUT PRIOR NOTICE.

WARNING:

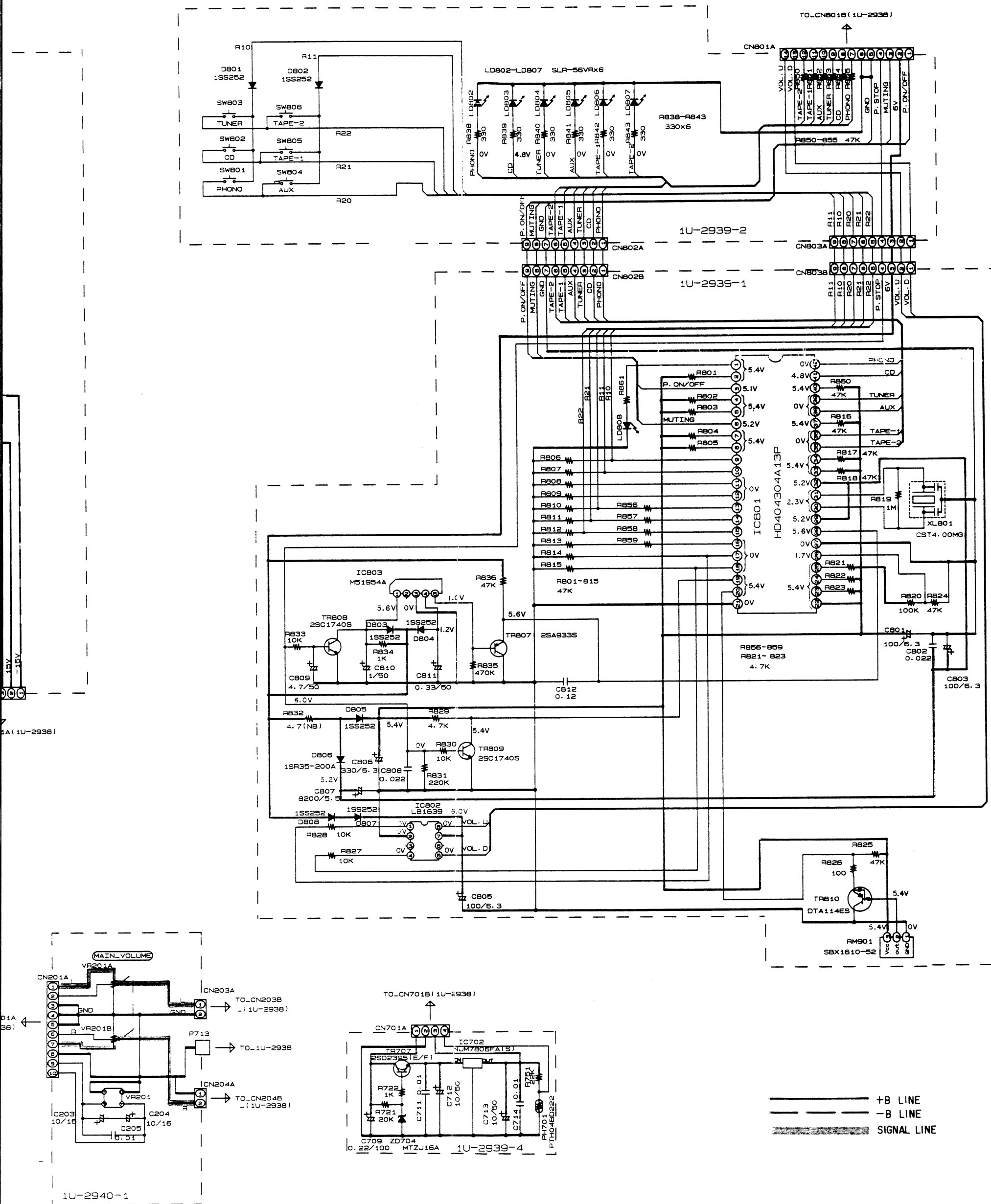
WARNING:
Parts marked with this symbol   have critical characteristics.
Use **ONLY** replacement parts recommended by the manufacturer.

CAUTION:

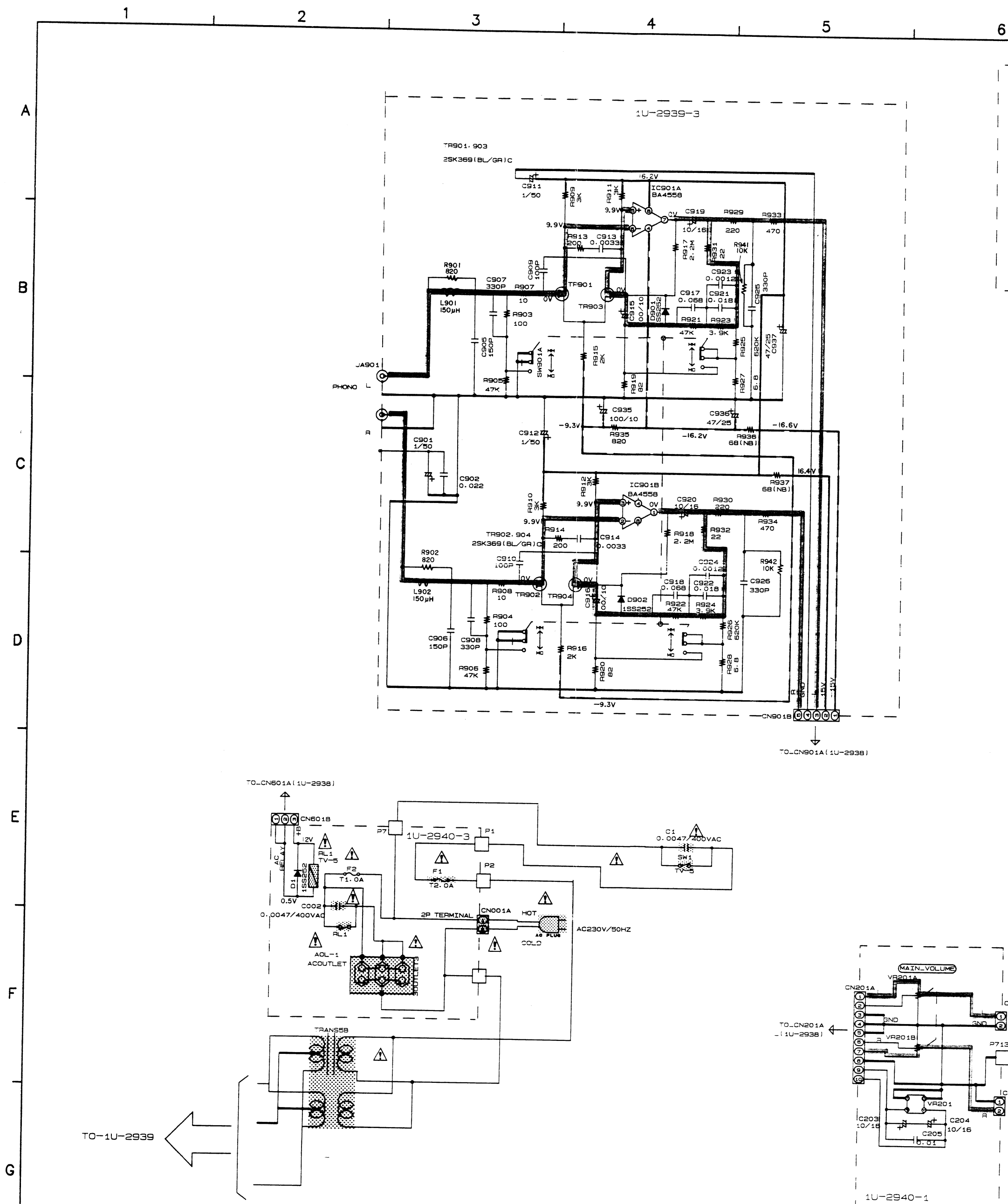
CAUTION: Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is defective.

WARNING:

WARNING:
DO NOT return the unit to the customer until the problem is located and corrected.

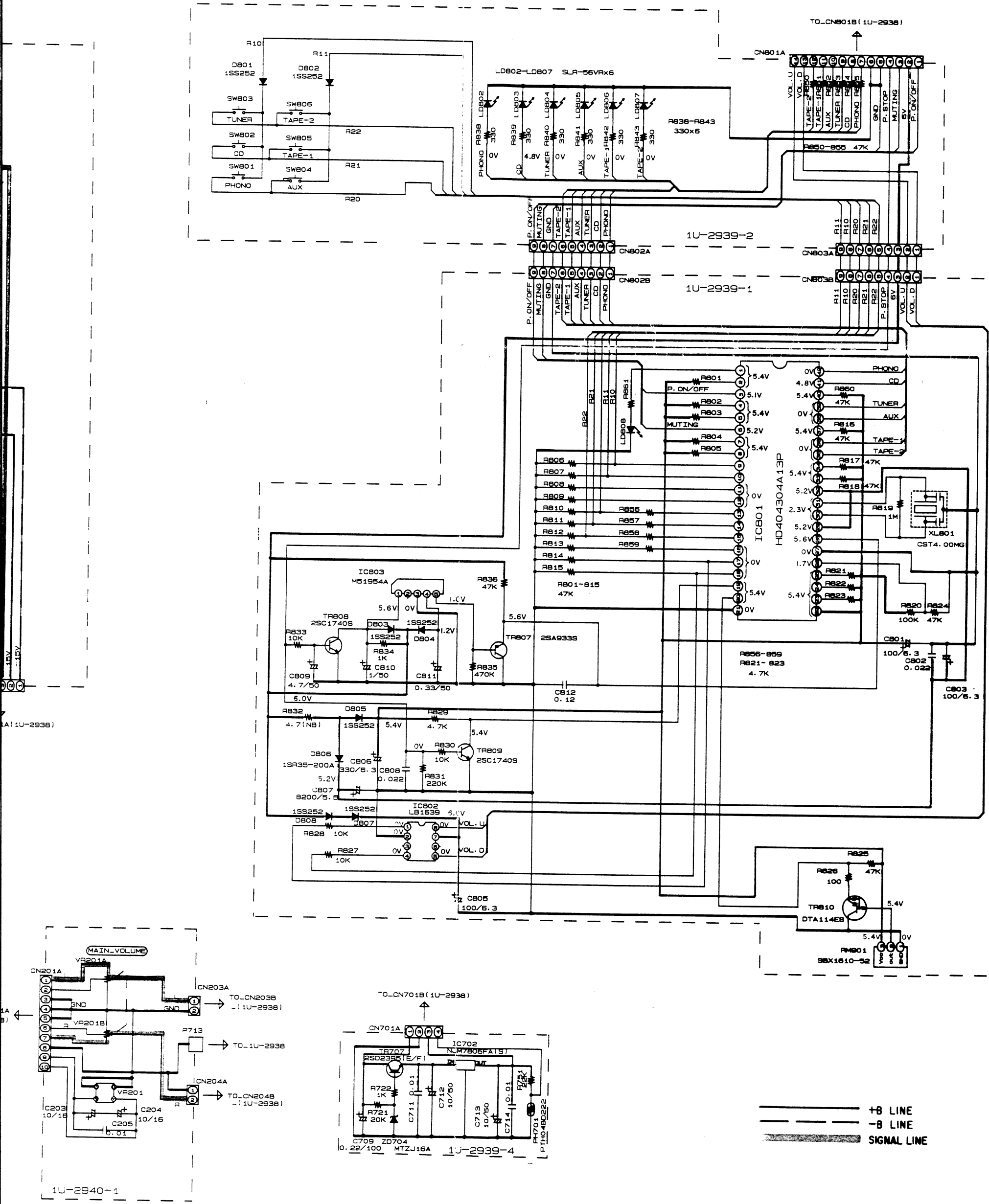


SCHEMATIC DIAGRAM (4/4) : PMA-725R



NOTES

ALL RESISTANCE VALUES IN OHM. K=1,000 OHM, M=1,000,000 OHM
 ALL CAPACITANCE VALUES IN MICRO-FARAD. P=MICRO-MICRO FARAD
 EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION.
 CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.



SCHEMATIC DIAGRAM (3/4) : PMA-725R

